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Engines



5 - 12.5 hp Single Cylinder Elite



16 - 24 hp Twin Cylinder Performer

Onan Corporation • 1400 73rd Avenue N.E.  
Minneapolis, Minnesota, USA 55432

Telephone: 612-574-5000 • Telex 275477 • Cable ONAN

Circle No. 261 on Reader Inquiry Card



# All signs point to a hassle-free cleanup season

Debris never falls where you want it. That's the hassle. And that's why it makes sense to have debris cleanup machines that can work anywhere. Machines like the John Deere 142, 152, and 162 Vacuum Sweepers.

All three work equally well on turf or pavement because they don't have wear parts beating the ground. They use vacuum power.

A heavy-duty steel impeller is the key. It creates tremendous suction and can handle everything from leaves and clippings to cans and bottles—actually crushing and mulching the material before it goes into the hopper.

The 142 and 152 are engine-powered, so they can be used with any tractor 20 horsepower or above. The 142 clears a 4-foot swath while the 152 eats up 5 feet of debris on every pass.

The PTO-driven 162 also clears a 5-foot swath and requires a 40 horsepower tractor. And, like the 142 and 152, you can empty the hopper without leaving your seat.

Talk to your John Deere distributor today for more information on all we have to offer. Or write John Deere, Dept. 956, Moline, IL for free literature. We know you're going to like what you see.

*John Deere vacuums work equally well on turf or pavement because they have no wear parts beating the ground.*



*John Deere blowers, like the 3-point hitch mounted 230, fit well into any cleanup operation.*



Nothing Runs Like a Deere®



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# Equipment

continued

Teledyne Total Power  
Wheel Horse Products Inc

## Engines

Briggs & Stratton Corp  
Earl J Crane Inc & Assocs  
Cushman  
Deere & Co  
DOB Distributors Inc  
Ford New Holland Inc  
Honda Power Equipment  
Kawasaki Motors Corp USA Engine Div  
Kiotti Tractor Inc  
Kohler Co  
Kubota Tractor Corp  
Lawn-Boy Inc  
Lombardini USA Inc  
Onan Corp

Onan's Performer series of two cylinder engines includes 16, 18, 20 and 24 HP horizontal shaft models and 16, 18, and 20 HP vertical shaft models. Features include electronic ignition, solenoid shift starter and full pressure lubrication.

Onan recently expanded its engine line with the addition of the single cylinder Elite series. The 12.5 HP vertical shaft model is currently in production and future models will include 5-12.5 HP horizontal and vertical crankshaft configurations.

### ONAN CORPORATION

1400 73rd Avenue • Minneapolis, MN 55432  
(612) 574-5000

Professional Tree & Turf Equipment  
Professional Turf Mfg  
Robco USA Inc  
Strong Enterprises Inc  
Tecumseh Products Co  
Teledyne Total Power  
Tufflex Mfg Co  
Westheffer Co

## Erosion Control Blocks

A C F Inc  
Atlantic Construction Fabrics Inc  
Eberhart Steel Products Plastic Div  
Hydro Turf & Assoc  
Presto Products Co

## Erosion Control Fabric

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Atlantic Construction Fabrics Inc  
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Conwed Fibers  
Dewitt Co  
E I DuPont de Nemours & Co  
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Hoechst Celanese Corp  
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North American Green Inc  
Phillips Fibers Corp  
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Warren's Turf Nursery Inc  
Weyerhaeuser Co

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Falkenberg Inc  
Southern Mill Creek Products Co  
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Deere & Co  
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Raymond Corp  
Teledyne Princeton  
Waldon Inc

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Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Deere & Co  
Dyna/ENERGX Corp  
Fairmont Hydraulics  
Homelite Div  
Honda Power Equipment  
Kawasaki Motors Corp USA  
Kubota Tractor Corp  
Onan Corp  
Shindaiwa Inc  
Tanaka Ltd  
Winco/Energx Corp

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Phillips Fibers Corp  
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Melex USA Inc  
Noland Car Co  
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Ames Co  
Anchor Swan  
Arborchem Products Co  
Falkenberg Inc  
Friend Mfg Corp  
Green Pro Services  
Hahn Inc  
Hannay Reels  
Hydro Turf & Assoc  
LESCO Inc  
Maruyama US Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Robco USA Inc  
Southern Mill Creek Products Co  
Spraying Devices Inc  
Strong Enterprises Inc  
Tufflex Mfg Co  
Westheffer Co

## Irrigation Systems & Supplies

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Aquaopore Moisture Systems  
Bloch & Co  
Buckner Irrigation  
Earl J Crane Inc & Assocs  
Franklin Electric  
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Hunter Industries  
Kalo Inc  
LESCO Inc  
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Outdoor Products & Supply Inc  
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See for yourself why there's nothing as nimble on any turf as a National Triplex. Call today for a FREE video.

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SINCE 1919

700 Raymond Avenue  
St Paul, Minnesota 55114  
FAX (612) 646-2887

## Equipment

continued

Toro Co  
Wheel Spray Corp

### Litter Receptacles

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Outdoor Products & Supply Inc  
Playworld Systems  
Standard Golf Co

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Billy Goat Industries



Bomford & Evershed Ltd  
Bush Hog  
J I Case Outdoor Power Equipment Div  
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Deere & Co  
Deutz-Allis Corp  
Ditch Witch  
Engineering Products Co  
Ford New Holland Inc  
Giant-Vac Mfg Inc  
Grazer Div M & W Gear Co  
Ingersoll Equipment Co

Kioti Tractor Inc  
Kubota Tractor Corp  
Massey-Ferguson Inc  
Melroe Co  
Olathe Mfg Inc  
Salsco Inc  
Steiner Turf Equipment Inc  
Strong Mfg Co  
Thomas Equipment Ltd  
Waldon Inc  
Westendorf Mfg Co

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Magline Inc  
Melcher Mfg Co  
Salsco Inc

### Log Splitters

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Forestry Suppliers Inc  
Ingersoll Equipment Co  
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# The Heavyweight Hauler.

E-Z-GO's gas-powered GXT-1500 is a real workhorse packed with hauling power, carrying two passengers and up to 1,500 pounds. Its extra long bed holds 19 cubic feet, and has removable sides and tailgate for easy loading. For on-the-spot maintenance, the GXT-1500 has a tilt dash, tilt seat and dump body, so that every part of its new, sturdy, more powerful, 20 horsepower, two-cylinder engine is within easy reach. With easy adaptability to virtually every type of turf accessory available, the GXT-1500 tackles the task whatever the terrain, whatever the need. Unquestionably, the toughest turf vehicle on earth. And that's just one of the full team of dependable, three and four wheel, gas and electric utility vehicles from E-Z-GO. The toughest, most versatile turf vehicles going.

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**EZGO** **TEXTRON**

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# It's a Sure Bet The World's Top Courses Aren't Cutting with a National Mower Because It's Pretty!



Discover why National Triplexes are the 1st Choice of the world's top turf professionals. Call today for a FREE video.

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SINCE 1919

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## Equipment

continued

Friend Mfg Corp  
Green Machine  
Homelite Div  
Maruyama US Inc  
Solo Inc  
Strong Enterprises Inc  
Trebtor Corp  
Westheffer Co

### Moisture Sensors

Forestry Suppliers Inc  
Westheffer Co

### Mower Accessories

Bolens Corp  
Bunton Co  
Earl J Crane Inc & Assocs  
Cub Cadet Commercial Mowers  
Danville Industries  
Deere & Co  
Deutz-Allis Corp  
Excel Industries Inc  
Grazer Div M & W Gear Co

Power Lawnmower Parts Inc  
Scag Power Equipment Inc  
Simplicity Mfg Inc

### Mower Parts

Bolens Corp  
Earl J Crane Inc & Assocs  
Cub Cadet Commercial Mowers  
Dandl Mfg Co  
Deere & Co  
Deutz-Allis Corp  
Excel Industries Inc  
Jacobsen Div  
Kiotti Tractor Inc  
Lawn-Boy Inc  
LESCO Inc  
Power Lawnmower Parts Inc  
Scag Power Equipment Inc

Rousseau  
Toro Co  
Woods Div  
Yazoo Mfg Co

### Mowers, Reel

Brouwer Turf Equipment Ltd  
Bunton Co  
Earl J Crane Inc & Assocs  
Deere & Co  
Jacobsen Div  
Kubota Tractor Corp  
LESCO Inc  
Locke Mfg Inc  
National Mower Co  
Howard Price Turf Equipment  
Ransomes Inc  
Roseman Mfg Co  
Steiner Turf Equipment Inc  
Toro Co

### Mowers, Rotary

Ariens Co  
BEFCO Inc  
Bolens Corp  
Bunton Co  
Bush Hog  
J I Case Outdoor Power Equipment Div  
Earl J Crane Inc & Assocs  
Howard S Crane Inc  
Cub Cadet Commercial Mowers  
Cushman  
Deere & Co  
Deutz-Allis Corp  
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Deere & Co  
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Gravelly Intl Inc  
Jacobsen Div  
Kubota Tractor Corp  
Mathews Co  
Middlesworth Engineering & Mfg Inc  
MoTrim Inc  
R L Parsons & Son ECI aka Micro-Mower Co

## THE CHOICE OF PROFESSIONALS

Promark tree- and turf-related products have become the standard in the landscaping/grounds maintenance industry.

Across the Country, municipalities, arborists, golf courses, landscape contractors and tens of thousands of other grounds care specialists have come to rely on Promark equipment for unsurpassed performance and cost savings, combined with unique engineering and safety features.

Over the past decade, most professionals seeing a Promark demonstration have become buyers, and then repeat customers. You owe it to yourself to see the best equipment in the industry in action. Ask an owner. He'll tell you "nothing equals a Promark."

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## Equipment

continued

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Ford New Holland Inc  
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Grasshopper Co  
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Grazer Div M & W Gear Co  
Grazer Div Willsey-D  
Heckendorn Mfg Co  
Homelite Div  
Honda Power Equipment  
Ingersoll Equipment Co  
Jacobsen Div  
F D Kees Mfg Co  
Kioti Tractor Inc  
Kubota Tractor Corp  
Kut-Kwick Corp  
Lawn-Boy Inc  
LESCO Inc  
Magic Circle-Dixie Chopper  
Massey-Ferguson Inc  
Middlesworth Engineering & Mfg Inc  
MoTrim Inc  
Howard Price Turf Equipment  
Ransomes Inc  
Sarlo Power Mowers Inc

Scag Power Equipment Inc  
Sensation Div  
Simplicity Mfg Inc  
Snapper Power Equipment  
Steiner Turf Equipment Inc  
Toro Co  
Vicon Farm Machinery Inc  
Walker Mfg Co



Wheel Horse Products Inc  
Woods Div  
Yazoo Mfg Co

### Mowers, Sickle Bar

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Gravelly Intl Inc

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Massey-Ferguson Inc  
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Green Pro Services  
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Nature's Touch  
Outdoor Products & Supply Inc  
Professional Tree & Turf Equipment  
Professional Turf Mfg  
Rain Bird Sprinkler Mfg  
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