

National Mowers

NATIONAL POWER QUINT

The mower that will go and cut where you can only wish the others could.

Goes up steeper hills.

Mowers are direct engine driven.

Wing mowers fold up and in. Backs out of narrow places.

All cutters have individual lifting lever operated from driver's seat.

Follows ground contours.

Price complete ----- \$1285.00

NATIONAL STANDARD FAIRWAY

Mowers—Have double sets of tempered steel gears running in oil.

Triplex ----- \$365.00

Quint ----- 660.00

NATIONAL JUNIOR FAIRWAY

Triplex, 86-inch cut.

Price ----- \$185.00

National Mower Co.

839 Cromwell Ave. St. Paul, Minn.

Write for Catalogue

THE NELSON ROBIN POP-UP FAIRWAY SPRINKLER HEAD

CUTS INSTALLATION COST BY FAR THROW

The Nelson ROBIN POP-UP Fairway Sprinkler head for underground, hoseless systems covers an area 90 to 100 feet in diameter. A series of 8 or 10 cover an acre of fairway, saving much of the installation cost of systems using the old type head.

The ROBIN POP-UP is permanently placed in a malleable iron casing sunk so the top is flush with the ground. Does not interfere with mower, tractor, or golf ball.

The ROBIN POP-UP is time-tested and proved in over two years of use. It has no gears to wear out, but has positive, sure action.

Get the facts about ROBIN POP-UP Fairway sprinkler systems. Free blue prints of plans showing arrangement, amount and sizes of pipes, fittings, valves, etc., necessary sent to any club submitting sketches of fairways. Write for complete facts.

When the water is turned on, the ROBIN POP-UP rises —just as the illustration shows. The nozzle at the right covers the outer portion of a circle from 90 to 100 feet in diameter. The spray from the other nozzle covers the inner circle. When not in use, the sprinkler drops back into its casing, causing no interference with mower or play.

L. R. NELSON MFG. CO., INC.

1730 S. WASH

PEORIA, ILL.

Visit our Booth at the Columbus Show

"THE PROOF OF THE PUDDING IS IN THE EATING THEREOF"

Here are some of the clubs who have bought and used one or more cars of "Windrift Hardwood" humus.



Alladin Country Club, Columbus, Ohio
Athens Country Club, Athens, Ohio
Belmont Hills Country Club, St. Clairsville, Ohio
Castle Shannon Golf Club, Castle Shannon, Pa.
Chartiers Heights Country Club, Pittsburgh, Pa.
Cincinnati Country Club, Cincinnati, Ohio
Cloverbrook Country Club, Cincinnati, Ohio
Connersville Country Club, Connersville, Indiana
Dayton Country Club, Dayton, Ohio
Findlay Country Club, Findlay, Ohio
Fostoria Country Club, Fostoria, Ohio
Fremont Golf Club, Fremont, Ohio
Ft. Mitchell Country Club, Covington Ky.
Hillcrest Country Club, Carthage, Ohio
Lancaster Country Club, Lancaster, Ohio
Lehigh Country Club, Emaus, Pa.
London Country Club, London, Ohio
Lorain Country Club, Lorain, Ohio
Losantville Country Club, Cincinnati, Ohio
Lost Creek Country Club, Lima, Ohio
Marion Country Club, Marion, Ohio
Miami Valley Golf Club Co., Dayton, Ohio
Mt. Vernon Country Club, Mt. Vernon, Ohio
Oakwood Country Club, Cleveland, Ohio
Plumbbrook Country Club, Sandusky, Ohio
Portage Country Club, Akron, Ohio
Possum Run Golf Club, Mansfield, Ohio
Shannopin Country Club, Pittsburgh, Pa.
Shelby Country Club, Shelby, Ohio
Snowhill Country Club, Wilmington, Ohio
South Hills Country Club, Option, Pa.
Springfield Country Club, Springfield, Ohio
Spring Grove Country Club, Kenton, Ohio
St. Clair Country Club, Bridgeville, Pa.
Sunny Brook Golf Club, Kent, Ohio
Twin Oaks Country Club, Covington, Ky.
Ulrich Golf Courses, Inc., Sycamore, Ohio
Union Country Club, Dover, Ohio
Washington Country Club, Washington, C. H., Ohio
Western Hills Country Club, Cincinnati, Ohio
Westwood Country Club, Rocky River, Ohio
Winding Hollow Country Club, Columbus, Ohio

The price for a 20-ton car is \$135.00 f. o. b. Carey, Ohio.

Prompt shipment guaranteed.

THE OHIO HUMUS PRODUCTS COMPANY

JAMES A. SMITH, President

BOX 95

LONDON, OHIO

APPLY « » then WATCH!

Eye-evidence given us by unbiased greenkeepers during 1930 again proves our claims true: that Hyper-Humus is the ideal organic for putting greens either as a base for compost or as top dressing when mixed with top soil and sand.

Being fine in texture, free from weed seeds and very slightly acid it is superior to leafmold, manure or crude peat.

Hyper-Humus

The Ideal Soil Conditioner is "Cultivated"

By "cultivated" we mean that it is not shipped "natural"—but is scientifically prepared by growing and turning under cover crops like Hairy Vetch, Rye, Soys Beans, etc., to produce an active humus. No other commercial humus is given the same expert attention as ours.

We have special advice and suggestions of much value to greenkeepers. Write today telling us your problems. Literature free.

Hyper-Humus Co.

48 PARK PLACE

NEWTON

NEW JERSEY



and easily, without scalping or gouging the greens. The 24-inch mower has the advantage on larger greens where the undulations are not so pronounced as it has a greater capacity and will effect a saving in time and labor.

The Jacobsen Power Putting Green mowers are so nicely balanced that a very slight pressure of the hand raises the mower from the ground. The center of gravity is over the large rear roller so that little if any pressure is exerted on the green by the front roller—a decided advantage over a mower which is balanced on the front roller and caster wheels. The Jacobsen Mower travels on its own power and turns on its own power.

The light weight is evenly distributed since the power is perfectly balanced over the traction roller. There is no more pressure on the green than the weight of man's foot, which means that the mower will not pack the green.

All major castings of the Jacobsen Power Putting Green mower are made of aluminum of the same specifications as are used in airplane construction. The castings are very light in weight but have the necessary tensile strength to withstand the strain to which they are subject in mower use.

The "Friend" Exhibit Gasport, Niagara County, New York. Booth No. 25

THE "Friend" Manufacturing Company of Gasport, New York, will have in their exhibit the latest model "Friend" Golf Sprayer. The success that many greenkeepers have had has been due to the use of a "Friend" Golf Course Sprayer known to all greenkeepers as a "Friend."

The machine on display this year is a model DK with a 200-gallon tank. Upon close inspection, we find that the pump capacity of this machine is 12 G. P. M. and that the pump has been equipped with Zerk Alemite fittings which lubricate the plungers, yoke bearing, and crank bearings. We are informed all machines now have this equipment. The pump maintains its drip proof construction and is operated by a Stover Oilrite engine.



FRIEND POWER SPRAYER WITH MOTOR ATTACHMENT

Upon inspecting the tank, we find that it is made of knot free cypress and has two compartments. We learn that the two compartment tank has a time-saving value which is impossible to overlook. As we know, each green has its own water supply. When the sprayer is being used, the material, whether it be fungicide or liquid fertilizer, can be applied from one tank while the other tank is being refilled. In this way, the machine is in continual operation while at the green and no delay is necessary while the tank is being refilled.

The construction of the "Friend" embodies many refinements which are essential and desirable from the greenkeeper's viewpoint. The improvement and protection of his greens by the aid of one of these machines will make him an outstanding figure in the eyes of all the members of his club.

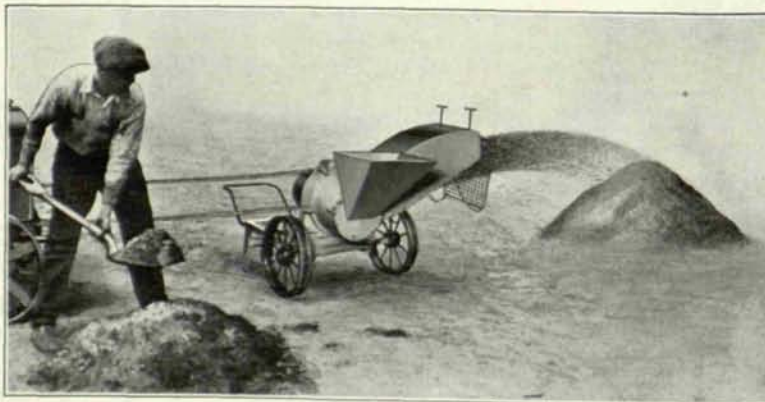
The Universal Sand Equipment Co., 1833 Columbus Rd., N. W., Cleveland, O. Booth 49

THIS company will have on display one of their new, improved Universal Compost Mixers,

together with advertising material and photographs of the machine in use. The Universal Compost Mixer presents the most modern method of preparing compost and top dressing. In a single operation, the machine produces and delivers perfectly blended and prepared compost into fluffy piles. It will take soil, sand and manure as fast as three or four men can shovel into it, preparing the compost five to ten times faster than any other method and saving fifty to ninety per cent in labor.

The machine is a compact, integral unit, rugged and substantial in construction. The mechanical principal of operation consists of the rotation of an impellor assembly within an impellor housing, having intake and discharge openings. The compost or top dressing material is shoveled directly into the intake hopper, from which it passes through the machine where it is subjected to the impact action of the impellor blades which, together with the blast effect developed by the impellor, serve to thoroughly mix the material, discharging it through the air.

The heavy steel impellor blades



UNIVERSAL COMPOST MIXER SAVES MONEY FOR GOLF CLUBS

Old English Grass Seed

FOR GOLF COURSES
BENT - FESCUE - BLUE GRASS - RED TOP


THE PHILADELPHIA SEED CO.

103-105 Arch Street

Philadelphia, Pa.

HUBBARD NURSERIES N. Kingsville, O.

A fine stand of
genuine Washing-
ton strain of Bent.
Extra rich in nodes.

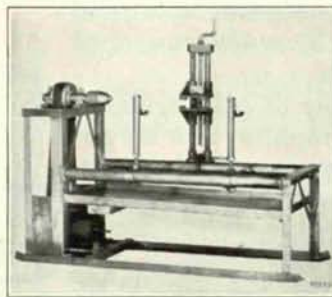
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with a Complete Line of
Seeds, Equipment, Ferti-
lizers for Golf Courses and
Sport Grounds up-keep.
Ask for Catalog

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HEADQUARTERS
IN
GOLF COURSE
EQUIPMENT

T. W. WOOD & SONS
RICHMOND, VA.

The Universal Sharpening Machine

Is a Money Saver For Your Club



*A machine that every greenskeeper should
have, to insure perfectly cut fairways, greens,
and tees.*

This machine is sturdily built and made to accommo-
date any size or make fairway, greens and tee mower.
It requires but a minute and a half to place any size
mower in the machine ready to be sharpened.

\$150.00 F. O. B. Detroit, complete with
motor. Without motor, \$125.00 F. O. B.
Detroit.

LAWN EQUIPMENT CORPORATION

601 W. Larned Street

Detroit, Michigan



"FRIEND" Golf Sprayers

Produce and Protect
Fine Greens
and Fairways

"Friend" Golf Sprayers deliver a high pressure spray which is soft and pen-
etrating. They make possible the economic use of materials. Double compart-
ment tanks enable the operator to spray continuously. Drip-proof pumps
eliminate injury to the turf.

Visit our Booth at Columbus

"FRIEND" MFG. CO., 161 E. Avenue Gasport, New York

1917 to 1931

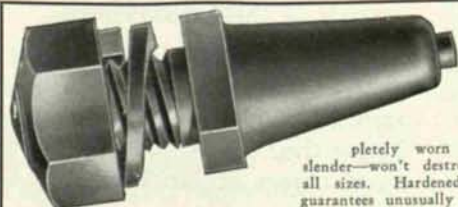
Mr. Green Chairman and Greenkeeper:

Gentlemen look at the improvement in the 13 lucky
years, all for you. The greatest serving water sys-
tem of the world. Sprinklers on stands or rollers to
work on any water pressure, Automatic travellers for
the fairways. Then the new Underground Absorbing
system for the entire golf course. The vision of sprink-
lers completely vanished out of sight giving glorious
grounds.

See J. T. Plumer at the Golf Show at
Columbus on the plan for installing

PELICAN WORKS

NILES, MICHIGAN



DIAMOND Steel Center SPUDS

Sharp until com-
pletely worn out. Strong and
slender—won't destroy turf. Made in
all sizes. Hardened tool steel center
guarantees unusually long wear.

DIAMOND CALK HORSESHOE COMPANY

Economy Sprinklers

make all water systems efficient.
Sturdy and wearproof, they dis-
tribute water evenly without waste.

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Distributors in Leading
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