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%-inch size, seven, and the 1-inch, nine. This hose can be furnished in continuous lengths approximating 500 feet per bale, or it can be obtained coupled in shorter lengths to fit requirements. The couplings are applied with heavy duty ferrules.

Toro First Stock Issue Is Over-Subscribed

M INNEAPOLIS, Minn.—One of the first issues of a golf equipment stock to be offered publicly was that of the Toro Manufacturing company, which was put on the market for the first time January 4th.

Starting in 1922 with sales of \$224,364 and earnings of \$12,973, the company has grown steadily. Earnings in year ending September 30, 1928 were \$128,535.35.

Examination of balance sheet shows cash on hand \$119,645.57, current assets of \$405,842.46 against liabilities of \$64,-151.65, a ratio of approximately 6½ to 1. Offering of 19,068 shares was made

through the Wells-Dickey Co. of Minneapolis, and Merchants Trust Co. of St. Paul at \$23,50 per share to yield 5.95%. Issue was heavily over-subscribed and sold out before noon of the opening day. It is expected that the stock will be listed on the Minneapolis Stock exchange.

Ideal Issues New Supply Catalog

I DEAL Power Lawn Mower company has issued a new catalog of turf supplies and equipment which is the most complete the company ever has prepared for the golf and park maintenance fields. In addition to having a concise description of the Ideal line of mowers, golf carts, etc., the catalog gives details of a big line of supplies and equipment made by other manufacturers and carried at the various Ideal branches.

A copy of the catalog will be sent free on request by any Ideal branch.

Chicago, Ill.—Ed Roberts, formerly sales manager of Nesser and company, is now in charge of the Chicago offices of the Consolidated Case corporation, at 14 East Jackson. The Consolidated organization handles golf and other sporting goods bags and cases as national sales agents for three manufacturers.



GOLFDOM



Ideal Has New Roller Greens Mower

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A FTER two years' experimental work and an actual season's operation in the field, the Ideal Power Lawn Mower company announces a new roller type putting green mower which has a number of very important features that



Ideal's New Green Mower with Grass Catcher

the manufacturers claim have a big appeal to greenkeepers.

This Ideal greens mower is a notably

light hand putting green mower, weighing 47 pounds, and 54 pounds where equipped complete with grass catcher and deflector. Side frames are of aluminum, and the drive rollers are also aluminum castings,



Showing small reel on New Ideal Mower

drive rollers being machine turned to a true round. The tie rods at both front and rear not only assure alignment, but also relieve all strain and pressure on the side frames.

An important feature of the new Ideal mower is that it is equipped with a very small reel, same being only 4 inches in diameter. This reel is geared to turn at a high speed, which produces a smooth





job of cutting and at the same time lessens cutting resistance to an extent where it is claimed that the mower pushes with remarkable ease. Careful workmanship is evident in every detail of construction, and the very best of materials are used throughout, the makers state, citing, for instance, every moving part being equipped with the highest grade ball bearings procurable, those on the reel being adjustable to take up end play. Even the small front casters are equipped with double oilless bearings.

The grass box is of all metal construction, rigidly built and scientifically designed in combination with the deflector to handle cut grass under all conditions with maximum efficiency. To arrive at a combination satisfactory under all conditions, the mower was tested in long grass, short grass, in grass that was dry, and grass that was soaked with dew and rain.

The mower is of an 18-inch cut and can be adjusted in height from 3/16 inch to 1 inch. The reel revolves at a speed to give a frequency of 7/16 inch between cuts, leaving all mowed areas in a velvety, smooth condition.

Carrier is also provided, same having rubber-tired disc wheels and being equipped with ball bearings.

Toro Puts New Items in 1929 Line

T ORO MFG. COMPANY announces in its new catalog and in its new house organ, the Toro News, several interesting additions and changes in the line. A new greens brush that removes the grain of the green, picks up worm casts and works in top-dressing, is one of the additions. Other new items are an all-steel dump wagon, the Toro Universal lawn-mower grinder and the Toro Zenith disker. Toro also announces that the double edged flexible bed knife again will be standard on all Toro fairway mowers.

Charley Erickson Invents New Hand Drag

C HAS. ERICKSON, greenkeeper, Minikahda Club, Minneapolis, has invented a new hand-drag to add to his list of golf course equipment. About it Charles says: "I have had this in mind for a good many years. In the spring when we start in with our greens, we always go over them with a sharp garden rake in two directions. The result of this spring raking is shown throughout the bal-





ance of the season. The grass needs scratching and combing. This device will do the same work as the rake except that it will do it much faster and is consequently a labor saver. Erickson's drag is 30 inches wide and has 33 teeth. Teeth are hardened and very sharp. The teeth are set in a zig-zag formation so that when you are dragging they will be 6 to 8 inches apart. That is as close as a garden rake. It is very light and easy to handle inasmuch as it weighs only 16 pounds.

"If you have a piece of land that you want to seed, consider that only comparatively few men know how to drag in grass seed. The man who seeds it gets the blame. The seed may be raked in bunches or raked in too deep; if the latter, it will not come through. When the greenkeeper looks it over, he will blame the seed and promise himself that he will not purchase any more at that place, but as a rule it is not the fault of the seed, but of the man who raked it in. With this device the seeds will be distributed evenly and at a uniform depth, and consequently an even growth of grass which is the pride of every greenkeeper. Erickson's drag can be adjusted to any stand with a lever.

"A continual source of trouble on any course are the bunkers. The dirt washes in the sides after a heavy rain, consequently a hard top crust forms which is easily cut with the Erickson drag.



Experts' Ideas on Equipment _Conditioning_

There is no chance to cheat in checking up each detail of equipment overhauling during the winter points out the Worthington Mower company. They state: "You will appreciate that from experience of overhauling and repairing units sent to our shops it is readily apparent which equipment has received the proper care and attention, and that which has not. The quantity of renewal parts required make an interesting comparative cost list. "It has become an impressive fact, that through failure to instruct the operators, an annual repair expense, immense in the aggregate, is now wasted by the golf clubs of the country, that could be entirely avoided if those in authority would see to it that their grass cutting apparatus is properly looked after and that the men

in charge are taught how to take care of it and how it should be run." During off-season, Worthington says careful inspection of the gears and bearings should be made so that worn parts can be renewed. Bad knife steels may have to be replaced and the fly knife reel reground. It is wise to remove all gears

and bearings; and wash them to remove any accumulation of dust and grit. All parts which may have worked loose during the season's operations should be tightened.

Roseman's Recommendations.

Following the usual custom of good greenkeepers and a systematic plan to reduce maintenance expense by keeping their mowing equipment in perfect condition, Roseman Tractor Mower company recommends the following practice:

Immediately after the mowing season closes, all mowers, tractors and other implements should be placed in orderly arrangement in an isolated part of the barn or near a repair shop. After removing all dirt and rust by scraping, brushing and washing with kerosene, the good mechanic will proceed to inspect the condition of each and every piece of equipment.

Each hand mower will be dis-assembled



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as far as is necessary to inspect every working part. All grease and oil will be removed that the bearings and gears may be inspected, refitted and replaced as the condition requires. Bed knives or bottom knives will then be re-dressed or new ones ordered and reels sharpened. Each and every mower will be given a complete overhaul by the mechanic during the winter months, and each mower will then be painted so that the equipment will be in perfect shape for use when the season opens.

Fairway mowers will be scraped. washed, brushed and soaked in kerosene, after which they will receive the same close inspection given hand mowers. Owners of Roseman mowers will be called upon to replace but very few parts, for the reason that they are built of non-breakable material. The reels may need sharpening, and it may be necessary to replace the bed knives, but all working parts should be washed thoroughly with gasoline or kerosene and the oil pockets cleaned out to insure perfect lubrication next season. These mowers should then be rebuilt and re-painted that they will be in as good condition as new ones.

The wheels of all tractors should be removed, the bearings examined, the grease removed and new grease applied. Motors should be drained and washed with a mixture of kerosene and gasoline. The timer, all wiring, the battery and radiator, and in fact, every part of the chassis should be given a thorough inspection, after which worn parts will be replaced. The radiator should be flushed out with a hose, additional grease placed in the rear axle housing, all grease cups refilled twice and screwed down, rear wheels inspected to see that the spokes are tight and the

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wheels keyed tight to the axles. Additional acid should be placed in the battery, and on old style tractors the greenkeeper will find it advisable to install a new timer and the necessary wiring for the timer, which costs but very little. The fan should be thoroughly greased and the fan belt tightened. If the tractors are to stand in a cold barn, all water should be drained from the radiator and motor. This can be done only by operating the motor as the water is being released. The bottom of the carburetor should be removed to allow the dirt and sediment to wash out, and the sediment bulb on the bottom of the gas tank should be washed by allowing at least one pint of gasoline to run through it.

All rakes, shovels, hoes, hose, brooms, spades, sprinklers and other small tools and equipment shall be inspected, renovated, oiled or greased, and re-painted to assure of their being in perfect condition for the new season.

Spike rollers shall be cleaned of all dirt, and plain rollers cleaned and oiled to prevent rust.

Compost mixers, scrapers, top-dressing spreaders, tee buckets and stands, benches, and, in fact, all golf course equipment will be completely rejuvenated and placed in perfect condition by the good greenkeeper in a systematic manner that the entire plant will be ready for operation before spring arrives. This requires conscientious and painstaking effort on the part of

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GET TRACTION

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the greenkeeper or his first assistant to not only paint but repair in good workmanship manner absolutely every tool and piece of equipment on his course while it is not possible to work on the golf course. The greenkeeper who does this saves his club many hundreds of dollars each year, or can save for his club at least \$500,00 each season.

Toro's Suggestion

Winter overhauling practice for Toro equipment as suggested by M. R. McLaren, Toro's Service Manager, follows:

"If best results are to be secured during the operating season all Toro equipment should be thoroughly overhauled and cleaned during the closed winter season.

"Tractor motors should be disassembled, carbon cleaned, valve⁸ ground, bearings taken up, piston ring⁵ replaced, magneto cleaned and retimed, and carburetors overhauled and adjusted properly.

"Transmission case should be flushed out, cleaned thoroughly and refilled with fresh lubricant; radiator should be drained and cleaned with a sola solution and all dirt, dead grass, and accumulations



Please mention GOLFDOM when writing advertisers



should be brushed from radiator core.

"The entire tractor should be repainted, and new transfers put on, which the Toro company will be glad to supply at no cost." "Mowers should be disassembled, thoroughly cleaned out with gasoline, all worn parts should be replaced, the mowers reground, reels trued up, reassembled and repainted.

"Miscellaneous equipment such as dump wagons, compost machines and top dressers should be cleaned thoroughly and repainted with a good grade of weatherresisting paint."

Go Slow Ideal's Advice

I DEAL Power Lawn Mower company says: Most clubs realize the importance of having their mowers ready for use at the start of the grass cutting season and recondition them during the winter months. The following brief instructions are intended for golf clubs that do this work themselves instead of having it done by some outside concern:

"To recondition the cutting units of fairway mowers, it is necessary that all of the working parts be inspected so as to



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determine their condition. The Ideal 'Bull Dog' cutting unit is of the low wheeled type with simple pinion and pawl drive, and the few moving parts are easy to disassemble and reassemble.

"Remove the drive wheels and the side frames; clean the bearings, pinions and the inside of the drive wheels using kerosene or gasoline for this purpose. Be sure all of the old grease or hard oil is removed. If any parts should show excessive wear, they should be replaced with new parts to insure against the possibility of having equipment laid up during the summer months. Then pack the bearings in hard oil or cup grease and reassemble the unit. Where a grinding machine is available it is easy to sharpen both the revolving cutter and the bottom knife, complete instructions being furnished by the manufacturer of the grinder. If a grinding machine is not available and the revolving cutter is in fairly good condition, it may be sharpened as follows: Remove the high spots with a file, filing the blade on a bevel so that the back of the blade will have ample clearance. Next, make the necessary adjustments. Be sure to adjust the revolving cutter first, and then the bottom knife.



"The knives may now be brought to a keen edge by lapping them in with a paste made of emery dust and oil. Spread a small quantity of this paste evenly along the edge of the bottom knife. Remove the wheels and change the pinions, putting the left hand pinion on the right hand side, and the right hand pinion on the left hand side. Replace the wheels. The blades can now be turned backward, either by turning the wheel by hand or pushing the mower backward on the floor. After this has been done, be sure to place the pinions in their original positions, wipe off the excess emery and oil, and readjust the revolving cutter. It is advisable to put plenty of oil on the cutting edges to prevent them from rusting during the time they are not in use.

"It is very seldom that the frame will be in need of repair. However, it is advisable to see that the push arms and the other parts which attach the unit to the frame are not worn to the extent that they will allow the cutting unit to run out of alignment when the outfit is in operation. Of course, all bearings on the frame should be oiled before the mower is stored for the winter.



PIONEER GOLF & LANDSCAPE CO. DESIGNERS Golf Courses BUILDERS 122 So. Michigan Ave., CHICAGO

How Experience Taught Westwood to Build

(Continued from Page 22)

passages from the men's and women's locker-rooms to the pool. The pool, by the way, has noteworthy water purification facilities.

The locker-rooms for men and women are in different wings of the building. Separate locker-rooms for girls and boys also are provided. A children's playground for bad weather use also is a basement feature of the building. There are five batteries of tub and shower baths in the women's locker-room, each battery having a beautiful dressing-table arrangement, fully stocked, in connection. There are 150 large-sized lockers in the women's department. Lounge facilities are provided in a locker-room bay.

In the men's locker-room there are 366 specially-made lockers. The two sections of the locker-room are of different heights. A barber-chair is installed in the locker-room and the barber does a brisk business. Four batteries of showers are installed in each section of the men's locker-room.

A fine professional's shop, with caddies' quarters in connection, is situated off one end of the men's locker-room. The caddies have showers, checking facilities, toilets, and a comfortable waiting room. together with a well equipped and goodsized "bull-pen" outside. Lunches are sold to caddies at cost.

Living Quarters Handsome

There are 17 sleeping rooms for members and a dormitory accommodating 12 available for members' use. The living rooms are splendid examples of country clubhouse furnishing in good taste, as is the rest of the house. Several private card-rooms also are among the club's features.

The main lounge is invitingly arranged and furnished and so laid-out that it will accommodate over-flow dinner crowds. Outside the lounge and bordering on the swimming pools, is an outdoor dance floor. Special partitions are used by the club in separating sections of the dining room when private parties are being held. These sections look like part of the permanent construction. They are stored in the basement when not in use. The grille is so located that its service bar may also serve, from a counter facing onto a hall, children without bringing them into a spot where they might be troublesome.

Off of one end of the main lounge are two of the most beautiful details of an establishment having a great array of bright spots. There is a brightly furnished salon for bridge mixed foursomes, and off of that is a woman's dressing room that is hard to beat for charm and conveniences.

To the right of the main entrance is a registry and information desk, behind which is the manager's office. The manager's living quarters up-stairs are beautifully decorated and of a size and layout to make them the envy of 99% of the golf club managers in the country.

Due to the difficulty of getting St. Louis help back and forth, the club has made unusual provisions in its employees' quarters. Dormitories, bath facilities, and ventilation make the Westwood job a model in this respect. The help shows its appreciation by keeping these quarters scrupulously neat.



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