



## FORD LCG\* TRACTORS

# \*Low-Cost Go-power—year around!

Mow and tow in a hurry with the Ford LCG (low center of gravity) tractor. Then use the versatile LCG for golf course maintenance and construction, landscaping, loading and many other jobs that single-purpose mowing rigs can't handle.

Get year around use with the wide range of maintenance equipment available for the LCG. Optional power steering, 3-point hitch, and Ford's advanced Live-Action hydraulics provide work-speeding performance with handy rear hitch equipment.

Choice of two power sizes—134 cubic-inch engine, and 172 cubic-inch engine available. Both power sizes are available with gas or diesel engines. Five transmission choices, including power-shifting Select-O-Speed.

Ask your Ford dealer for an LCG demonstration soon!



FOR 60 YEARS THE SYMBOL  
OF DEPENDABLE PRODUCTS

# FORD

# ONE source for ALL your needs



more \$\$\$ for you in  
**WATERED FAIRWAYS**

## DESIGN

We furnish complete plans and specifications.

by  
*Miller*

## INSTALLATION

Complete guaranteed installation or coop-installation whereby we furnish materials and supervision, you provide labor.

## EXPERIENCE

Miller designed systems were installed in over 35 miles of fairways in a single season.



If Your Course Is Anywhere  
In The Midwest . . . Call - Write  
- Wire Miller For Free Survey!



# A. J. MILLER, INC.

"Midwest's Largest Underground Irrigation Contractor"

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ROYAL OAK, MICHIGAN

ing of a new course.

3. Establishment of golf car traffic lanes and their development as a part of construction. Location of traffic patterns during the design stages can relieve many headaches later.

4. Location and establishment of adequate nursery sod for quick repair when needed.

5. Design and construction of adequate storage and repair facilities for maintenance equipment, topdressing, fertilizers, chemicals, etc. Temporary facilities have a bad habit of becoming permanent. The result is inefficient operation and disgruntled help.

6. Physical soil measurements to make certain that the prescribed mixture of materials will have a certain minimum porosity and infiltration rate.

### Percolation Rate

The important factor is not "How much sand" but "How many inches of water will percolate in an hour after standard compaction." Suggestions made by the USGA green section for a certain minimum percolation rate often seem to be misconstrued as an effort to build a "sand green." The amount of sand to be added

depends upon the quality of the native soil to be used as the base, so that a given percolation rate can be achieved after compaction.

The higher the clay content, the more sand must be used to achieve the end result.

These are only a few of the modern technics now in use to assure the officers of the new club that they can start with a good course that will not need to be rebuilt in a few years. The supt. will have assurance that he will have a course as free as possible of "built-in headaches" — one that will be relatively easy to keep. The pro can have the satisfaction of playing and giving lessons on turf more mature for its age by virtue of scientific treatment from planting to playing.

### Checking Disease Attacks

Q. Enclosed, find a plug of 328 bermudagrass. We think that this grass has either dollarspot or brownpatch. It was planted in mid-July.  
(North Carolina)

A. By the time the grass arrived in my office nothing was distinguishable. At this time of the year your worst trouble would be brownpatch, especially if you have been fertilizing heavily

# Jacobsen



## model "F" mowing tractor

*faster out-front cutting... greater flexibility!*

The Jacobsen-Worthington Model F Tractor with 7 out-front gang wing-lift mowers is setting new standards for large area mowing equipment! Its exclusive features cut turf maintenance costs wherever speed, smooth cutting, versatility and mobility are required.

The Model F's fully articulated mowers cut ahead of all tractor wheels. No streaking of grass... safer, full front-view operation... full view of overlap, too! You trim in close, avoid obstructions, swing through narrow

openings... as you mow with 3, 4, 5, 6 or 7 gangs... cut up to 15½ foot swaths. The finger-tip control hydraulic system quickly raises and lowers the gangs independently without stopping the tractor. Speeds mowing, trimming and travel time. See the Model F tractor and the complete line of cost-cutting Jacobsen Turf Equipment now. Call your distributor for a demonstration or write today!



**Jacobsen Manufacturing Co., Dept. G-5, Racine, Wisconsin**

# INCREASE BATTERY LIFE TO 2 YEARS

ON AVERAGE COURSES  
IN YEAR AROUND PLAY  
WITH *Lester* GOLF CART  
BATTERY CHARGERS

## The *Lester* GOLF CART BATTERY CHARGER

### features:

- Minimum gassing of battery
- Reduction in frequency of adding water and cleaning of battery tops
- Extension of battery life
- Simple circuit of quality components to assure long life and minimum repair



SINCE 1946 • Available with most new carts when specified

# Lester

## EQUIPMENT MANUFACTURING CO., INC.

Manufacturer of the original golf cart charger

151 WEST 17TH STREET • LOS ANGELES 15, CALIFORNIA

with soluble nitrogen and if there has been a great deal of water from rainfall or irrigation. The best suggestion is to use as little water as possible and try to develop a feeding program that will produce steady, slow, uniform growth and cut down on disease attacks. You can check a disease attack with a dusting of hydrated lime at 2 lbs. per 1,000 sq. ft. applied in the evening and not watered in until morning. See your dealer for approved fungicides for the specific diseases.

### Dew on Greens

**Q.** In Iowa I was never allowed to work on the greens until the dew was off, so I practice the same here without actually knowing why. Why? (Kentucky)

**A.** Dew on grass interferes with the proper operation of equipment. Wet grass, when crushed, can be injured and rendered more susceptible to diseases. Besides that, it is just plain "sloppy". Today, with constantly increasing pressure from more and more golfers starting earlier and playing later supts. are lucky to find any time to mow grass. Considerable attention is being given to night work where play is very heavy.

### Grass in Traps

**Q.** We have common Bermuda fairways. Is there any way to keep this menace out of sandtraps besides continual hoeing and pulling? (Kentucky)

**A.** Three materials can be used to reduce the Bermuda menace in traps: Fuel oil, Dalapon,

or Maleic hydrazide. Give each a try (following manufacturer's recommendations) on a limited scale until you are satisfied as to which one is best for you. Regular edging with a power edger will bring the grass under control. Then treat only the cut edges with a retardant to prevent the formation and spread of stolons and rhizomes.

### Nationwide Handicap System

United States Golf Handicaps, Inc., P.O. Box 72, Pebble Beach, Calif., has organized a nationwide system for computing and recording electronically the handicaps of players on public and semi-private courses. The service, according to Bill Brown, a director of the USGH, will be based on processing players' scores for three month periods, and will consider course ratings. Brown says the USGH handicapping plan will generally follow the USGA handicapping system with adaptations to provide handicaps for unattached golfers.

An additional nine holes will be opened in June at Fred Waring's Shawnee Inn, a golf resort located in Shawnee-on-Delaware, Pa. This will give the 53-year old resort spot a total of 27 holes.

# Ransomes GANG MOWERS

are used by the Royal Montreal Golf Club  
and the Royal and Ancient in Scotland



Ransomes **GANG MOWERS** are used by the Royal Montreal Golf Club and the Royal and Ancient in Scotland. Ransomes manufacture the world's finest gang mowers for the man who is interested in cutting large areas of grass in the most economical way.

'**SPORTCUTTER**' (As illustrated) for finer mowing on golf courses, parks and sports grounds.

'**MAGNA**' for rougher work on airfields, orchards and pasture-land.

For illustrated leaflets and specifications write to:

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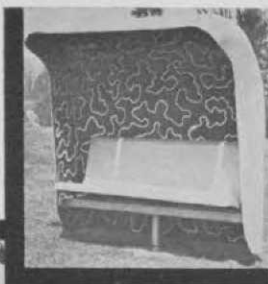
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**RANSOMES SIMS & JEFFERIES LTD., IPSWICH, ENGLAND**

## MIRACLE Fiber Glass Golf Tee SHELTER



*So attractive,  
you'll want to  
install one  
on every tee!*

Maintenance-free, perma-color fiber glass shelter rotates 360° for maximum protection against wind, rain, sun . . . or stray balls. Roomy enough to seat four adults. Golfers won't mind waiting in the shade of a Miracle Shelter. Write for color brochure and low price.



### Modern MIRACLE SHELTERS

These permanent, all-weather structures come in three sizes from 10' x 18' to 20' x 36'. 101 uses! Write for color brochure and prices.

#### FIBER GLASS PICNIC TABLE

Top and seats swipe clean for maximum sanitation.



#### FIBER GLASS BENCH

Modern bench designed for permanent installation.

#### FIBER GLASS RELAX-A-BENCH

Colorful, all-weather fiber-glass contoured for maximum comfort.



**FREE** color brochures and prices on our golf course items and complete line of playground equipment. Write today!

**MIRACLE EQUIPMENT COMPANY**

GRINNELL 5, IOWA

## A Film Is Born After Many Revisions

*(Continued from page 66)*

feel of the whole swing, does the pupil start with one part of the swing — the address position, for example. After he has had an opportunity to habitize this, he moves into the next part and so on until the whole swing is taught.

The Foundation professionals accepted the teaching method, but threw out the teaching. The result was four rejected scripts and the problem still remained: What is the basic doctrine of the swing and how do you integrate it into the teaching method?

### Agree After 14 Revisions

The next set of scripts came closer to agreement. At least here was a foundation — a chunk of rock on which both pros and teachers could agree. And agree they did, finally, after 14 script revisions which continued, even, after the final shooting and editing was done.

But the result is startling! Not because of the time, money and ulcers that went into the motion picture, but because for the first time there is a melding of a doctrine of the swing and a method of teaching on which professionals and educators can agree.

### Divided Into Four Parts

The full color, 16mm movie series with sound, is divided into four parts. Part I is a 13 minute introduction to the game. "Welcome to Golf." It excites the interest of the non-golfer by introducing him to the game in some truly beautiful settings. Dallas Jones Productions began shooting some scenes for this unit during the Western Open at Medinah CC last summer. Three other Chicago area private clubs opened their courses to the NGF for many of the outdoor scenes. These were Glen Oak CC, Glen Ellyn,; Riverside GC and Westmoreland CC in Wilmette. The excellent layout at the Belleview Biltmore in Belleaire, Fla. was another setting used.

In addition to showing these rich settings, Part I takes the viewer on a tour of the course, shows him how the game is played and introduces him to the equipment used. Finally, it demonstrates what he must do to learn the game.

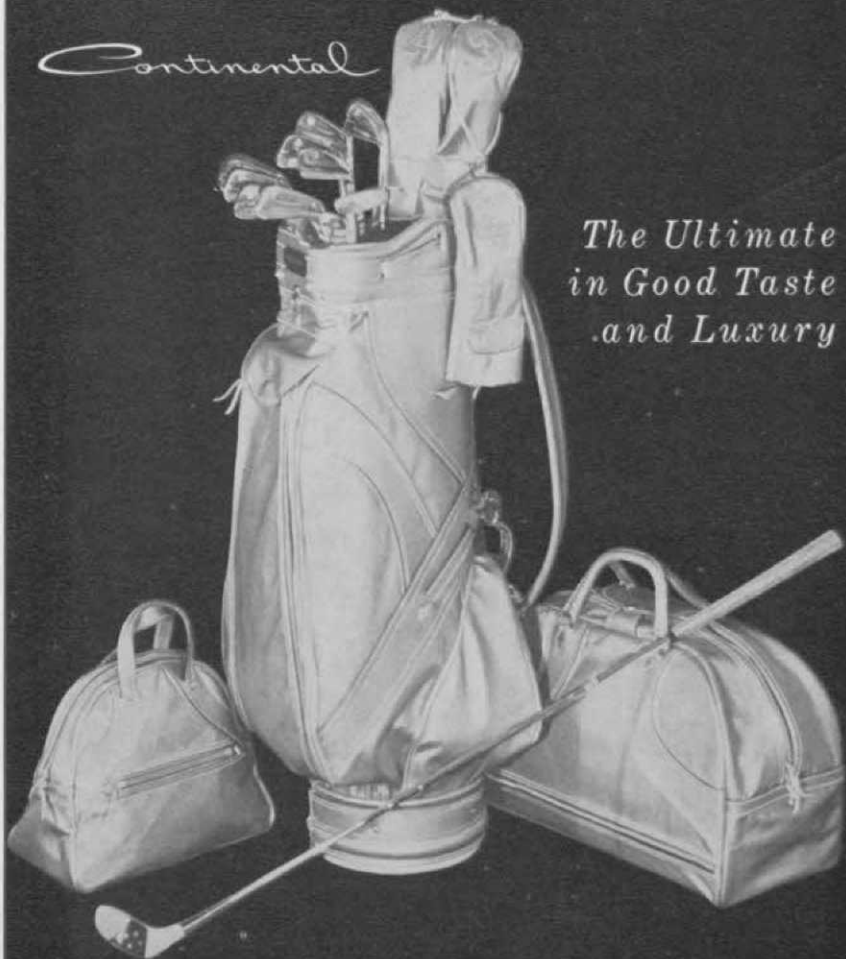
### Heart of the Film

Part II is the heart of the instruction film. Called "Building Your Swing," it dramatically demonstrates with slow mo-



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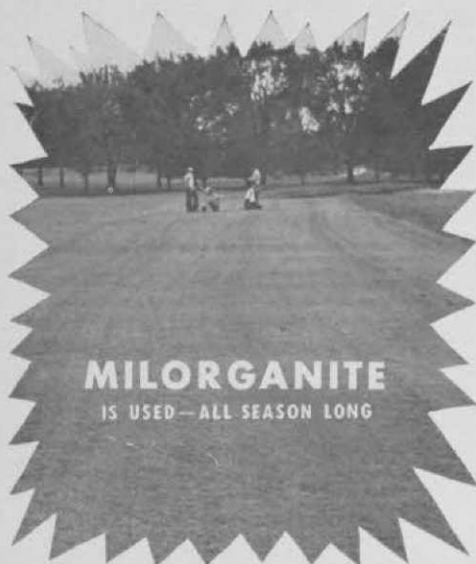


Matching Continental luggage is the definitive choice of the discerning golfer. Custom crafting, of highest quality leathers, in a selection of ten handsome colors as bright and new as tomorrow, affords the absolute ultimate in beauty and durability. And for the style-conscious golfer, the complete line of Continental luggage is available in "His and Her" sets.

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**Golfcraft**

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If You Have a Turf Problem  
Write TURF SERVICE BUREAU

**THE SEWERAGE COMMISSION**

Milwaukee 1, Wis.

**MILORGANITE**  
The NATURAL ORGANIC FERTILIZER

tion, full stop and superimposed animation, the intricate movements of the swing. An intense 27 minutes is spent in developing the swing from the whole to each part and back to the whole again. Dave Gumlin and pretty Darlene Anderson, two fine young golf students at the University of Minnesota, are pictured in the series. The producers also used a novice in most dramatic fashion to demonstrate how the swing develops. A beginner will easily identify himself with the subject on the screen as he builds controls into his swing.

For use in classes, large or small, this unit will give the professional and the physical ed teacher an opportunity to point out the basic movements. So much knowledge and information is packed into the section that it can be profitably seen over and over again.

### Shows the Short Game

Part III, a 12 minute reel, does exactly what the title says: "Pitching, Pitch and Run and Sand Shots." Fundamentals are taught and the important differences in arm and wrist action for each of the approach shots is clearly demonstrated.

Part IV is devoted to "Putting." This excellent 10 minute film is not confined to a single method, but teaches several approved techniques. Both wrist and firm wrist and tap and stroke methods of applying momentum to the ball are included. The film concludes with a graphic demonstration of putting on uneven greens.

### Can Be Bought or Rented

The films are available for purchase or rent. The purchase price of films I, II, and IV is \$65.00. Rental is \$5.00 per unit. Purchase price of Unit II is \$135.00 and rental is \$10.00. The complete set (four units) (may be purchased in one package) for \$295.00. Inquires should be directed to the National Golf Foundation, 804 Merchandise Mart, Chicago 54, Ill.

The full set of four films are now ready for distribution. Individual units recently were shown to a very limited number of PGA and school groups. The reaction has been exciting. Pros and teachers agree that the new NGF series are superbly presented. More than 200 requests for preview were received. Only a limited number of films can be set aside for preview so the best way to see the series is to rent or purchase the units. Some organizations have one or two sets available for members, including the PGA film library in Dunedin, Fla.





The versatile "L" machines shred and then load from conveniently high discharge levels—popular with Golf Course Builders, Architects, and Supts.

# THE TREND ON THE LINKS AT THE PARKS

DIRECT POSITIVE SHREDDING! Lindig shredders handle soil materials better (wet or dry) because of their high speed hammer-mill type of action.

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## Developers Say Palm Beach Gardens-PGA Contract Signed

Royal American Industries, which is developing Palm Beach Gardens subdivision, has issued a release saying that Lou Strong, PGA president, and John D. MacArthur have signed a contract that moves the PGA headquarters to the real estate development northwest of Palm Beach, Fla.

No announcement of details had been made in PGA publicity. Strong says that PGA members will be familiarized with the construction and operation budgets of the Palm Beach Gardens project after the executive committee meets during the PGA Championship. Initially, the Palm Beach Garden-PGA deal was referred to by some officials as involving a \$2 million property. Strong says in the Royal American publicity release that the "evaluation on the two 18-hole championship courses and clubhouse, which also will house the national headquarters office of the PGA, is \$3 million." He advises that the PGA will borrow \$1 million as initial financing.

### Hall Withdraws Objections

Following a PGA executive committee meeting at Palm Beach and letters to presidents and secretaries of PGA sections advising that the Palm Beach Garden deal had been approved, PGA treasurer George L. Hall, who had repeatedly objected to terms of the contract, wrote section officials that he "would refrain from making further objections" and cooperate with the executive committee decision.

No PGA release covering the executive committee decision was made to the PGA membership in general, newspapers or magazines.

The Royal American Industries release stated that signing of the contract by MacArthur and Strong put "an official end to rumors and speculation" concerning the move of the PGA headquarters to north Palm Beach County.

The signing was a formal recognition of an agreement already understood by the parties involved. "The only reason for the long delay," according to Strong, "is that the time schedule agreed upon in November, 1961, when the announcement was first made was too tight to