

AUGUST
1970 1/-

The British Golf

Greenkeeper



Ransomes Auto-Certes

20" cut & 18" cut

Single point height-of-cut.

A single micro hand wheel adjusts the height-of-cut from $\frac{1}{8}$ " to $\frac{1}{4}$ " at only 1/64 at a time.



for a superb finish to golf greens, cricket squares and bowling greens

Dual control. Separate landroll and reel clutches enable easy control of the mower at all times.

Super strength cutting reel. The 10-knife, impact resistant steel, cutting reel stays razor sharp longer—gives a perfect finish.

Transporting. Power-driven transport wheels allow quick, effortless site-to-site transportation.

Outrigger rolls. Fitted as optional extensions to normal front roll—gives extra stability on undulating green.

Brush and Comb Set. A nylon brush and steel comb are optional extras, for controlled turf grooming.

RANSOMES



THE JOINT COUNCIL
for
GOLF GREENKEEPER
APPRENTICESHIP

representing the English and Scottish Golf Unions, The Welsh Golfing Union, The British and Scottish Golf Greenkeepers Associations and The Sports Turf Research Institute.

Since 1963, when this Council was formed, 82 young men have completed their apprenticeship. 77 more are under training. The Joint Council wishes to thank all those golf clubs who have realised that the future upkeep of golf courses depends on proper training now, and the Head Greenkeepers who have handed on their experience to the next generation.

Hon. Secretary:
P. C. French, 3 Skeet Hill Cottages,
Daltons Road, Chelsfield, Orpington, Kent.

GREENKEEPER

HON. EDITOR: F. W. HAWTREE



FOUNDED 1912

PUBLISHED MONTHLY FOR THE BENEFIT OF GREENKEEPERS, GREENKEEPING AND THE GAME OF GOLF BY THE BRITISH GOLF GREENKEEPERS' ASSOCIATION

President:
CARL BRETHERTON

Vice-Presidents:
SIR WILLIAM CARR
GORDON WRIGHT
F. W. HAWTREE
S. NORGATE
I. G. NICHOLLS
F. V. SOUTHGATE
P. HAZELL
W. KINSEY

Chairman:
H. A. D. FRY
Heathercroft
6 Northway, Bishopston
Swansea, Glam.

Vice-Chairman:
A. ROBERTSHAW

Hon. Secretary & Treasurer:
C. H. DIX
Addington Court G.C.
Featherbed Lane
Addington, Croydon, Surrey
CRO 9AA

Executive Committee:
Carl Bretherton (President)
G. Herrington E. W. Folkes
R. Goodwin S. Fretter
J. Parker J. Simpson
A. A. Cockfield H. M. Walsh
H. Fry (Jun.)

Hon. Auditors:
Messrs SMALLFIELD RAWLINS AND
Co., Candlewick House, 116/126
Cannon Street, London, E.C.4

The Association is affiliated to the English and Welsh Golf Unions.

No. 304 New Series

AUGUST 1970

AUGUST

CONTENTS

PAGE 3	TEE SHOTS
4	THE HEAT'S ON!
10	EIGHTEEN HOLES WITH HAWTREE
No. 12.	The High Veld
12	SPECIAL OCCASIONS
13	SITUATIONS VACANT
14	NEWS FROM SECTIONS

EDITORIAL AND ADVERTISEMENT OFFICES: Addington Court Golf Club, Featherbed Lane, Addington, Croydon, Surrey. Telephone: 01-657 0281. SUBSCRIPTION RATE: 15/6 for 12 issues post paid. Published during the first week of each month. LATEST COPY DATE: 8th of month prior to insertion. All rights reserved. Reproduction of original articles and photographs in whole or in part is prohibited. This Magazine shall not, without the written consent of the publishers first given, be re-sold, lent, hired out, or otherwise disposed of. Contributions and photographs of interest are invited.

TO INSERT A CLASSIFIED ADVERTISEMENT, write to the Advertisement Manager at the above address. The rate is 6d. per word (minimum 15 words). Remittance must be sent with order. Please state number of insertions required and write advertisement in block letters. Advertisements will be inserted in the first available issue.

Under the guidance of users in the field and those responsible for professional fleet operation, we have re-examined in minute detail the requirements of mowers used specifically for the cutting of superfine turf. The result is . . .



By Appointment to
Her Majesty the Queen
Manufacturers of
Motor Mowers
Charles H. Pugh Ltd.
Birmingham.

the new **ATCO** 20" SPECIAL

the endurance-tested new features include:-

- LARGER CAPACITY "POWER-TO-SPARE" ENGINE, WITH EXTRA LONG-LIFE SPECIFICATION
- "LONG-RANGE" 6 PINT FUEL TANK
- PERFECT CONTROL THROUGH INSTANTLY ADJUSTABLE TUBULAR HANDLES, WITH THROTTLE AND CLUTCH CONTROLS BEAUTIFULLY TO HAND
- MAIN CLUTCH ACTUATED BY TWIN BALL RACES FOR DRAG-FREE PULL-BACK
- TRANSPORTING WHEELS WITH HEAVY DUTY TYRES AND RE-DESIGNED INTEGRAL FASTENERS
- FRONT AND BACK ROLLERS WITH COMPOUND RADIUSED ENDS FOR MINIMUM TURF MARKING
- BUILT-IN ATTACHMENT BRACKETS FOR OPTIONAL GRASS COMB
- EASIER MAINTENANCE BY BALL-BEARING MOUNTING OF FRONT ROLLER AND IMPROVED LUBRICATION OF BACK ROLLER

The ATCO 20" SPECIAL is the mower you designed; so ask your local Atco Branch for a field trial on your fine turf now

Free literature from
CHARLES H. PUGH LIMITED
P.O. Box 256, Atco Works, Birmingham 9



TEE SHOTS



by the Editor

The June drought has brought additional problems to Colin Baxter at the Whitburn Golf Course, South Shields. His course is built on rock and pipe laying cannot be contemplated. Until the club got the South Shields Fire Brigade to assist he was relying on borrowing milk churns from a local farm to carry water to his greens. He describes this spring and summer as a "nightmare".

* * * *

York Golf Club whose club-house was largely destroyed by fire in February 1969 has now re-opened an imposing new club-house which cost between £47,000 and £50,000. The official opening is on 1st August and will be performed by Mr A. R. Alvin, President of the English Golf Union and a leading figure in Yorkshire golf for many years.

★ ★ ★ ★

Work has also started on new municipal golf courses for the Strood Rural District Council and the London Borough of Havering. A new 18-holes at Addington Court will also be open for the public within the next month or so. Problems experienced by greenkeepers in the quick transition from cold winter to dry spring have been accentuated on many recently constructed courses.



Grass Seeds

**FOR HIGHEST PURITY
AND GERMINATION**

SEND
NOW
FOR OUR FREE
'GREENKEEPING'
CATALOGUE

THE CANNOCK AGRICULTURAL CO. LTD., CANNOCK, STAFFS

THE HEAT'S ON!

by BILL SMART

Superintendent, The Powelton Club, Newburgh, New York

As mid-summer draws near, it would do well to remember that very little of our natural landscape is grassland as we know it and cultivate it on our golf courses. The north-west coastal range and the north-eastern seaboard are the only two large areas that come readily to mind. The early settlers saw little grass as we know it today. Perhaps the long bladed grasses in sections burned off by the Indians in an effort to obtain game; a common practice by this early American—or perhaps they saw finer swamp grass or native bent growing in abandoned beaver ponds that had silted to meadowland. Nature it would seem pollutes to good advantage at times.

Should any Golf Course Superintendent of today have Indian blood, he might call the season approaching The Time Of The Ulcer—for this period from June through early September truly tests the fortitude and knowledge of the turfman.

To solve a problem, one must first know what the problem is. To me the true enemy in midseason is just one factor—Heat! Most of our summer conflicts evolve from growing grass in an environment that seeks to reject this unwelcome intruder. Leave a golf course untouched for 10 years and it will revert to the native countryside; only the hand of man keeps it a sward of grass.

Once you accept this premise you can take steps to “cool” it. It is astounding to me how few do accept it. Ask any man in turfgrass management what his major summer problem is and he will likely reply: disease, wilt, labor, poor water system. *Poa annua*, heavy play, and so on. While all of these annual ills may be present, the root of the problem is plain old high temperature. If the reader dis-

agrees with this, it will be no more than I expected; but let me assure him that my conclusions have not been hastily drawn.

The answers to two nagging questions gave me some insight on grass failure in midseason. (1) Why did courses with minimum budgets often come through the season with less trouble than more affluent courses? (2) Why did some course superintendents, who watered “incorrectly”, have such an astonishing greens survival rate? The answers, and the acceptance of the heat factor theory during the 100 day period starting June first, led to a new concept in my summer maintenance.

First and foremost, I geared all my planning to the survival of the turf I had at the end of May. Care of what I had took priority over all else. This meant no projects—no construction—no extras, after June first. Maintenance and mow, water and watch. I am referring to greens in this article, especially older greens before the introduction of the newer, more tolerant bents; however, the basics would apply to other turf as well.

I have always held that any disturbance of the green surface during hot weather is a serious error. Only under the most unusual circumstances would I consider vertical mowing or aerating after the June first deadline. Even topdressing and fertilizer applications tend to injure turf in stress periods. The dark material tends to absorb heat and raise the surface temperature of the turf; and if the material is dry (as topdressing normally is, and most fertilizers are) it absorbs moisture from the surface of the green. Small factors, perhaps, but they are to be reckoned with.

There are times when well-intentioned greens chairmen will dispute

LEYLAND 154

the 'PERFORMANCE' lightweight

Versatile, and economical in operation, the Leyland 154 is ideal for turf maintenance work. Its light weight is a great advantage when working on grass where heavy tractor wheel pressures are to be avoided. With 25 h.p., compact dimensions and the ability to manoeuvre in confined spaces, the 154 is the 'PERFORMANCE' lightweight tractor for work on golf courses, parks and sports grounds. Leyland 154 features include 9-speed gearbox with 3 reverse gears, independent hydraulics and 2-speed P.T.O. There's a wide range of optional extras and specialised equipment. Arrange a demonstration with your Leyland tractor distributor or write for information to:—

TRUCK & BUS DIVISION, LEYLAND MOTORS (SCOTLAND) LTD., TRACTOR GROUP, BATHGATE, SCOTLAND.



the "100 day" rule and it takes the courage of conviction to stand your ground. I could fill these pages with case after case where the condition of the course suffered, in the prime playing months, due to projects or work best left till fall. In many cases, the superintendent is his own worst enemy in this respect. We all take on extra work we really have no time for and our men have no skills for. This is usually done "to save the club money"—or, in the case of the inexperienced green chairman, he feels you can handle it because you have a few schoolboys on as summer help.

Two cases will illustrate my point. (1) A superintendent was called before deplorable condition of the course in his Board of Directors to explain the midseason; his explanation that he and his crew had taken time to put in blacktop around the club and saved the club \$1,200 did not impress the Board. (2) A man on a nine hole course was forced to lay two men off in August. Reason?—"the grass isn't growing now and you don't need to mow it so often."

The plain and simple truth is that most courses have maintenance crews and they have little time for anything other than routine upkeep (if they are to do it well) and it takes all the skill and manpower a superintendent has to bring a course through this most critical period. A friend of mine in Westchester (Bob Hope called this metropolitan New York County a "populated golf course" because of the many courses) was fond of saying "Anyone can run a golf course . . . up to the Fourth of July." As I have stated, I prefer to roll that back to the first of June.

Wilt

Detecting wilt in early stages is not easy for the untrained eye. In my crew of eight men, only one can be depended on to see it and stop all work until it is under control. He is my fairway man and is in position daily to head off trouble. Although I have never tried them, Polaroid sun glasses will detect wilt much sooner than the naked eye.

The use of wetting agents on turf is still in its infancy. Although they have been used nation wide. In my use on two courses, plus my first-hand knowledge of their use on other courses, I find that they definitely aid in obtaining uniform moisture levels. And, when used with phenyl mercury, they help to control water loss through the stomates. Proper use, in connection with other factors I have mentioned, has almost eliminated syringing on my course. Localized dry spots due to heavy thatch or severe contours have also been eliminated as one of my summer worries.

"X Pounds of N"

Fertilization practices on golf courses are a nightmare to one who attempts to evaluate them by practices used on other courses. No two use the same material in the same way. The text book approach is not much better, with only a guideline of X number of pounds of N, and adequate levels of P and K suggested. With so many variables (soil type, type of turf, timing, area of the country—etc.), is it any wonder that each superintendent has his own individual program and that this often as not varies from year to year? To further confuse things, we have organics, inorganics, synthetics, and their different forms and prices. My early observations led me to believe that most, if not all, superintendents fertilized not for health and growth—but for color. It is understandable to want greens that are pleasing to the eye; but the massive doses recommended and applied (as high as 12 pounds N per 1000 sq. ft.) produced a forced, soft growth. In many cases, this is at a time when the turf is trying to cope with its artificial environment by going into a semi-dormant stage. This leads to excessive disease, scalping, salts build-up, slow putting qualities and that "old debil", wilt.

I do not claim to be the first to go on a low nitrogen program for greens; indeed, many low budget courses use one through no choice of their own. This is one reason why the smaller courses often have less trouble

than the plush layouts. After much trial and error (too much of the latter), my fertilizer program for *all* golf course turf has evolved in two pounds of Actual N (in organic form) on dormant turf in early winter, and another pound in mid-September. During the summer season, a very small amount of water soluble fertilizer (in the weekly fungicide spray) is used on greens and low cut tees. Color? Iron Sulfate in the same spray gives me all the color I need or want. This program is minimum in cost and labor but, more important, it produces a slightly hungry turf which is more disease resistant, less prone to wilt and yields just enough growth to replace natural wilt (golfers are natural to a golf course). My rates may be too low for some of the newer, more aggressive bents. My greens are fairly typical of older courses in this area—South German bent plus overseeding through the years with whatever was fashionable or least expensive. *Poa annua* is present, although not a problem percentage-wise, and is on the decline. As is typical with other older courses of this area, the collars are almost 100 per cent. *Poa annua* as are the low cut tees and fairways. I am on no program to eliminate *Poa annua*. There has been much discussion about living with *Poa*, but, to the best of my knowledge, no one in this area has actually gone all-out on a program with this goal in mind. It has been done successfully on greens and low cut tees—why not fairways? If I can hold collars of 100 per cent. *Poa annua*, why not 40 acres of fairways? Last season was easy; nature co-operated. Water was put in the fairways in the fall of 1964 and my *Poa annua* is now fat, healthy and aggressive. I believe O. J. Noer said, "*The little grass plant wants to grow; let it.*" That is exactly what I plan to do.

Summary

Turf, as we maintain it, is seldom a natural growth and its most critical period is the 100 days from June first on.

The only way to handle "extra "

work in this period is to have extra men and money—over and above your working crew and working budget. Better still, contract out all special jobs.

Another serious error is never leaving well enough alone when the course *is* in good condition. I have been as guilty of this as anyone else. Our pride in our work and our intense personal interest tend to make us try to make things just a little bit better—or try to please everyone. It is done every season—verticut to make the greens faster for the member guest—an extra shot of fertilizer when you host the local meeting—lowering the cut because the club champ had a bad round and went to the chairman (who came to you). I see, and have made, the same old mistakes every year. A good mid-season rule to follow is: If In Doubt, Don't Do It! Turf can be lost through too much attention, as well as the lack of it.

Perhaps the most important tool you have is your watering system. If you have a fully automated system that is in perfect working order with all the water you need—God Bless You—not many can make that claim. The rest of us must accept the system we have (at any rate, for this season). The vital concern here is to get the turf in the best possible shape before its peak use. This is clearly the responsibility of the man on the job. Indeed, no other person will know or care about your pumps, pipes, valves, hoses and sprinklers. The system should deliver every possible gpm, with no flaws to sap its potential. All portable watering gear should be in plentiful supply. And if I did have an automatic system, I would check and recheck it well beforehand.

Most authorities refuse to be pinned down on watering practices. We are all aware of the stock phrases: "*Apply an inch a week*"—"*Go as long between watering as possible*"—"Overwatering is bad, and underwatering is just as bad." After trying every method I could think of, I have come to the conclusion that what I am after is a uniform, constant moisture level—and

this is best done by a short watering period *every morning*. On the silty loam greens of my experience, about 10 to 15 minutes would seem to be about right—but like all the “experts”, I would like to qualify this by common sense factors. These include expected weather, past weather, presence of *Poa* green construction, gpm of the sprinkler and on and on. This early AM watering will wash in any possible accumulation of salts, aid in fertilizer break-down, reduce disease development and help keep the day-time surface temperature down. Most important, however, it should give your greens protection from sun, wilt and wind for just *one more day*. Multiply this by 100 and you are through the season. But, don’t count on it alone. A greens check just before noon is good insurance. In some cases a light syringing can be made after lunch. This is one operation for which the rule is: “If In Doubt, Do It.” No turf was ever lost due to a light mid-day watering. In true stress periods, check again in time to repeat before your men are through for the day. Over 75 per cent. of my time during a normal (dry) summer is spent in some type of watering activity—this, of course, includes supervision of those who are doing the watering. I feel that some of the reaction to this will be, “But I don’t have the time or men to do this”. My reply to this is, “I can’t imagine anything more vital to the course or your own welfare”.

Another annual error is lack of

proper instruction on syringing greens. On many courses it amounts to, “Joe, you take the back nine—and Louie, get the front”. Many greensmen feel that this is a casual, rather foolish operation and can be done any old way and get on with more important work. Then there is always the man who is gone for hours and reports back, “I really gave them a good soaking”. I have made it a point to syringe once early in the season as sort of trial run, to remind the old-timers what it is all about and to instruct the new men. One minute to a thousand square feet, at my course, is enough during stress periods. The aim is to replenish the moisture through the surface of the leaf and to lower the soil level temperature. This is *not* the time to build up moisture in the root zone; this is the job of normal irrigating. Hand syringing leaves the most margin for error and this system needs careful and constant supervision and instruction. In quick coupling systems, the use of sprinklers will eliminate coverage problems but is somewhat bothersome to players. With pop up, semi or full automatic, the only concern need be with timing; many superintendents give instructions in terms of “let the head revolve six times”.

For hand syringing, a 75 foot light-weight, high quality hose makes a durable outfit to transport from green to green. Fogg-It nozzles, drilled out to $\frac{1}{4}$ inch, are inexpensive, unbreakable and pocket size. I keep three 75 footers, coupled and nozzled, ready to go at all

R. C. CRAIG

AND CO. LTD.

SPECIALISTS IN THE REPAIR AND
MAINTENANCE OF ALL TYPES OF MOWERS

★ Agents for: RANSOMES SIMS &
JEFFERIES Ltd

★ LLOYDS & Co. Ltd.
WEBBS LAWN MOWERS

★ Distributors: DENNIS BROS Ltd.
GANG MOWERS FOR HIRE

We will gladly call on you to advise on your grass cutting equipment or arrange demonstrations. Ring us now.

★

**153 Arch Stamford Brook
Station, LONDON, W.6.**

RIVERSIDE 5415

times. They are not used for any other purpose.

You are the only person who knows what your watering system should be. If it is not right, fix it—remodel it—update it . . . this fall. For the present, care for it as if your job depended on it . . . and it does. Instruct others that their job also depends on it.

A little watering every morning may be wrong culturally, but so is our close-chopped golf course turf. Does it make sense to wait till mid-day and perhaps be forced to syringe to save wilting turf, with probable root loss that takes weeks to recover . . . or would you rather plan an hour's work in the morning that will give you peace of mind and insurance all day?

Four Discoveries

H. W. Meusel's work at Yale proved that stomates in the grass leaf can be closed by chemicals, and thus retard wilt. It is neither mysterious, expensive, difficult or dangerous. Nor is it a cure-all.

I consider that there have been four

major turf developments in the past 25 years: (1) selective weed control by the 2, 4, D materials, (2) chlorinated hydrocarbon insecticides, (3) broad spectrum fungicide concept plus iron sulfate, and (4) use of wetting agents on turf.

It is too early to judge, but I suspect that I will be adding low nitrogen dormant feeding to this list.

If your course is in good shape at the end of May, (and it should be) make a resolution to keep it that way for the next 100 days. Don't try, at this late date, for any "improvements"—save them till after the 8th of September—the end of the 100 days. The nights are longer and cooler and you will have made it through another season.

If I have stimulated your thinking or struck a nerve, I would be happy to hear from you. Do not write and expect an answer between June first and September the eighth!!

With acknowledgements to "Golf Superintendent"



ESTABLISHED Tradition

See us on Stand No. 1, Avenue F, at the International Sportsground, Machinery and Equipment Exhibition, Mootspur Park, Sept. 15, 16, 17.

is important to our highly skilled team of maintenance and service engineers. Immediate delivery of spare parts — from the largest stock of spares in the trade. An immediate service exchange assembly (engines, cutting cylinders, magnetos, etc.). Reliable maintenance service to keep your equipment in top working order. Our Service Engineers and Demonstrators are available at any time. H.P. facilities available.

NEW EQUIPMENT ALWAYS IN STOCK

Distributors and Authorised Repair Agents to Ransomes, Sims and Jefferies. Official London Area Distributors for

Ransomes specialist machines

HONDA

Tractors, Cultivators, Generators.

Main Agents and Distributors for Clinton and Briggs & Stratton engines

Officially Appointed Service Depot for **VILLIERS & J.A.P.** Industrial and Agricultural Engines.

RELF AND KENDALL

406 BRIGHTON ROAD, SOUTH CROYDON, SURREY. CRO 0578
11 STATION ROAD, NEW BARNET, BARNET 8228



Member of the British Golf Greenkeepers' Association

Member of the National Association of Groundsmen

Contractors to : Municipal Authorities, Sports Clubs, Golf Clubs, Reconditioning and Maintenance of all grass cutting equipment.

18 HOLES WITH HAWTREE

No. 12—THE HIGH VELD

by FRED HAWTREE

It is rather more fashionable to write about South Africa than from South Africa just now but the Horton victory at Royal Durban gives a certain excuse—"The first foreigner to win the South African Open" as the *Eastern Province Herald* put it. It is also not uncommon for golfing journalists covering tournaments abroad in winter to slip in a few words about the sunshine which is roasting them with the hope that the snow back home is not too deep. If I fall into the trap it need cause no resentment because spring should be in the air by the time this 12th hole is played and I shall have been home a month or more.

Summer in Johannesburg is the green time; in winter, frosts turn the golf courses a light brown and the game reminds one of early prints of golf on the ice. Putts skid across the greens and the ball runs nearly as far as it carries from the tee.

Contouring of green surfaces is therefore very subtle—so subtle, in fact, that it is often hardly visible. The type of undulation which caused alarm on British seaside greens before watering became general, would cause mayhem here. The local *Cynodon dactylon* does not like water when it is dormant and in any event this would not keep it green when temperatures fall. By the same token cross slopes on fairways need to be restrained and calculable.

These limitations have in no way inhibited design generally. On the contrary, the standard of the layouts I have seen is uniformly high. C. H. Alison the English golf architect no doubt helped to set this standard with Glendower, Germiston, and Pretoria West End. He later collaborated with A. F. Tompsett who was responsible for Kyalami amongst many others. Bob Grimsdell, another South African golf architect recently completed the River Club, with some very fine holes in awkward country

and now collaborates with Brian Wilkes. Both Tompsett and Grimsdell were contemporaries of Sid Brews who came out here from Minchinhampton in Gloucestershire. All three did a great deal for South African golf in other ways besides designing courses.

The modelling of greens and bunkers on these courses is a delight and the uses of trees and water both in play and as decor often out-Trents the Jones's. Length naturally, gets considerable emphasis (where doesn't it?) because at 6,000 ft. the ball flies much farther in the thin air. All the 200 yard posts are at 225 yards and Mr Gary Player is even now advising a new Rand Mines development on a golf course which will top 8,000 yards. Serve him right if he has to play on it!

Short holes are proportionately longer short par 4's of, say, 340 yards are not liked because they are driveable. "Sky-line" greens where the base of the flagstick is not visible also gets low marks though it is hard to see how they can always be avoided.

The grasses used are mostly indigenous strains of *Cynodon* in Florida being popular for greens and Cape Royal on fairways. A local "kweek" is also generally in attendance and may be developed instead of commercial strains while the aggressive kikuyu will send its tentacles into everything unless kept at bay.

When the frosts come, the season's growth on the greens has left a brown fibrous mat which serves to support winter play until just before spring when all greens are scarified down to bare earth. The members seem to tolerate this for three or four weeks when all becomes green again.

Labour for upkeep is plentiful and possibly over employed. At one course during the scarification process I counted 24 native workers round one

green. One man was operating the machine, two were sweeping behind him and 21 were draped round their brooms in earnest conversation. But there was nothing they could do even if they had wished to take a more active part in the operations. But while there is handweeding of undesirable grasses to be done this situation has its advantages.

The rough can be very impressive especially in higher rainfall areas near the coast. Palms, tree ferns, tree heathers, tall reeds add to the spectacle beside flowering trees and shrubs. It is reported that the following conversation took place within earshot but not within sight of a fairway.

“Where are you caddie?”
 “I’m here, master.”
 “What are you doing caddie?”
 “Looking for your ball, master.”
 “Well stop worrying about the ball. Come and look for me!”

DATES TO REMEMBER

**INTERNATIONAL
 SPORTSGROUND, MACHINERY &
 EQUIPMENT EXHIBITION**

**Motspur Park,
 15th, 16th, 17th September 1970**

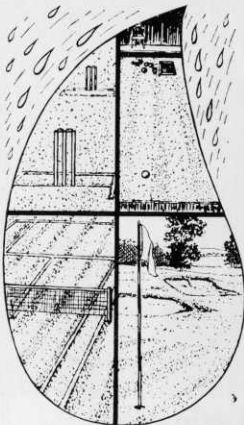
AND

**INSTITUTE OF PARK
 ADMINISTRATION EXHIBITION**

**Bournemouth
 22nd - 23rd September 1970**

Correction

The Open takes place at St Andrews and not at Royal Lytham and St Annes as stated in Hon. Secretary’s note. We wish to apologise for any inconvenience caused.



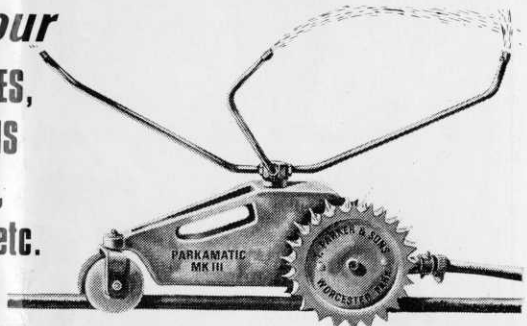
**Water your
 CRICKET SQUARES,
 BOWLING GREENS
 TENNIS COURTS,
 GOLF COURSES etc.**

**the easy
 way**

with the

**PARKAMATIC
 TRAVELLING
 SPRINKLER** from

PARKER



This Sprinkler has been developed in conjunction with Mr A. McTaggart, the Ground Superintendent of the famous Motspur Park Athletic Grounds.

Designed to provide the Professional user with a completely Automatic method of even watering. Cricket Squares, Bowling Greens, Tennis Courts, All Weather Surfaces and Running Tracks all come within the scope of this machine which represents a break through in high speed efficient and even watering.

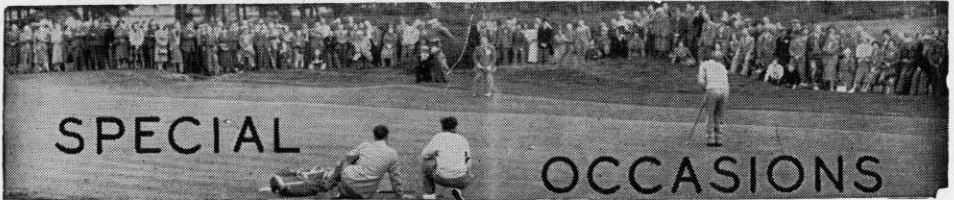
No staking, wires or other elaborate preparations are necessary with the "PARKAMATIC" simply lay out hose pipe on a pre-determined course and the "PARKAMATIC" will do the rest, straight travel and curved all come within its scope.

The machine travels 140 ft. per hour pulling 3/4" Alkathene Tubing at pressures of 40 lb. p.s.i.

Full details from: **T. PARKER & SONS [Turf Management] LTD.**
 The Independent Firm with the Personal Service.

Worcester Park, Surrey Tel: 01-337 0861 01-337 7791 (10 lines)

NEWS FLASH: PARKER LOAM USED FOR NEW WEMBLEY PITCH. MAY WE QUOTE YOU?



JULY	8th	Sheffield Section Annual Tournament
	16th	South-West Section Summer Tournament
	20th	Midland Section A.G.M. and Habberley Cup
	22nd	East Midland Section A.G.M.
AUGUST	17th	Annual Tournament Filey Golf Club
	18th	
	19th	
SEPT.	9th	Southern Section Autumn Tournament
	10th	North-East Section Autumn Tournament
OCT.	6th	South Coast Section Meeting



SPIKER SLITTER ATTACHMENT FOR AUTO-TURFMAN

(Patents granted or pending at home and abroad)

Arising from discussion and requests in several parts of the country, Sisis Equipment (Macclesfield) Ltd., have developed a means of attaching and operating the standard Sisis spiker slitter in conjunction with their Auto-Turfman.

The spiker slitter is being used increasingly to prevent "mat" development on fine turf areas or to eradicate

this fibrous growth which can establish if no regular programme of scarifying or slitting is carried out.

In future all Sisis Auto-Turfman machines will have side-plates drilled to take the necessary brackets. Existing machines can be drilled as required and a detailed drawing will be supplied on request.

The recommended retail price of the special brackets is £1 15s. per pair.

SITUATIONS VACANT

HEAD GREENKEEPER required. Apply in writing to the Secretary, Saunton Golf Club, Braunton, North Devon, stating age, past experience and two references. House available. Good salary in accordance with experience.

THE ROYAL BIRKDALE GOLF CLUB require Assistant Head Greenkeeper. Applications in writing to the Secretary, Royal Birkdale Golf Club, Southport, Lancs., or telephone Southport 67920 for an appointment.

WORKING HEAD GREENKEEPER required immediately for new Golf Course being constructed at Condover Grange, Shrewsbury. Must be fully experienced in all branches of greenkeeping. Good salary and accommodation. Apply in writing giving details of experience, age, etc., to the Secretary, Shrewsbury Golf Club, Meole Brace, Shrewsbury.

FOR FAST GREENS



**FIT A GRASS COMB
TO YOUR MOWER**

STEWART & CO.,
FINE TURF SPECIALISTS
EDINBURGH. EH2 2AY

Elvin Pennants

MELKSHAM, WILTS. (Phone Melksham 2272)

NYLON GOLF FLAG AND CLUB FLAG SPECIALISTS

16" x 12" NYLON GOLF FLAGS	} SLEEVE OR TIE ON	5s.	6d.	plus	PT
STANDARD GOLF FLAGS		4s.	0d.	plus	PT
PENNANT GOLF FLAGS (RED, WHITE OR YELLOW)		4s.	0d.	plus	PT
TEE BOXES		£2	0s.	0d.	No. PT
FLAG STAFF 6 ft. and 8 ft. from		£1	2s.	0d.	plus PT
TEE MARKERS ENGRAVED AND STOVE ENAMELLED		£1	10s.	0d.	plus PT
PLASTIC TEE BALLS (RED, YELLOW)			7s.	0d.	plus PT
BUNKER RAKES		£1	5s.	0d.	plus PT
PLASTIC SIGNS e.g. "Please Repair Pitchmarks"			10s.	0d.	plus PT
LARGER SIGNS e.g. "Trolleys This Way"			14s.	0d.	plus PT

YOU NAME THE SIGN! WE MAKE IT!

PLASTIC SHEETS ALL SIZES ROPED and TOGGLED according to size No PT
NEW 3½" PUTTING CUPS, HOLE CUTTER AND PINS, FOR PRACTICE
GREENS ONLY—IMPROVE PUTTING, SPEED UP GREEN PLAY

SECRETARY'S ITEMS :

"PITCHFORKS" 9/6 per doz. inc. PT
GOLFERS' IDENTI/DISCS 1/9 each, 4 colours, in plastic

News



from the Sections

SOUTHERN

Chairman:
J. K. GLASS
(Thorpe Hall)

By F. W. Ford
Hon. Secretary:
68 Salcombe Gardens
Mill Hill, N.W.7
Tel: 01-959 2847

A.G.M.

The Annual General Meeting was held at the Stirling Castle Hotel on Wednesday, 27th May 1970. Mr J. Wallis-Arthur presided. The minutes of the last A.G.M. were read and the Secretary reported the balance once again in a sound financial position. They were adopted on a proposal by Mr Morton and seconded by Mr Rennie.

Election of Officers

The following were elected for the year:—President, Mr J. Wallis-Arthur; Vice-Presidents, (en bloc) Messrs D. M. Craig, F. W. Hawtree, G. P. Simpson, G. W. Worrell, J. Field, K. J. Hemmingway, F. Brittin, W. J. Holloway, P. A. Marshall, A. J. Bates, C. Diebel and C. J. Fowler.

Chairman, C. A. Moore; Vice-Chairman, E. W. Folkes; Committee—J. K. Glass, D. H. Major, D. Kirkpatrick, P. Moore, W. F. Machin, C. E. Ryan and D. S. Gould.

Executive Committee, E. W. Folkes.
Secretary and Treasurer, F. W. Ford.

Any other business

To accommodate the steady increase in the number of members attending our lectures it was decided to investigate the possibility of an alternate larger meeting place. Mr J. Wallis-Arthur promised to do the investigating.

The Secretary was asked to approach

Wanstead with a view to holding our 1971 Annual Dinner there.

Mr D. Craig quoting Ransomes, said that if the Southern Section were thinking of visiting Ipswich in the near future they would be most welcome.

The meeting closed with a vote of thanks to the chair.

Autumn Tournament

The Autumn Tournament will be played at Orsett Golf Club, Essex, on Wednesday, 9th September.

The closing date for entries is Monday, 24th August, and the draw will take place on the 25th.

Members wishing to play should write to me stating names, handicaps and club of themselves and partner and whether requiring a late start.

New Members

I should like to welcome to the Association the following new members:—J. W. Martin (Pyecombe), G. N. Brown (Manning Heath), V. Duffy (Upminster) and J. O. Toynbee of Flymo Ltd.

Congratulations to H. J. Knight who has been appointed Head Greenkeeper to the Gillingham Golf Club.

Welcome to G. A. Fillis who has joined our ranks from the East Midland Section.

Our best wishes for a long and happy retirement to H. Hughes of Cuddington, who has retired to the West Country.

SOUTH COAST

Chairman :
P. MALIA
(Lee-on-Solent)

By Tom Graham
Hon. Secretary:
"Waverley",
West Lane,
Hayling Island,
Hants.

Venue for Meetings

Monthly meetings of the South Coast Section are to be held on the first Tuesday of each month commencing in October. The Ampfield Golf and Country Club will be our meeting place — the time 7 p.m.

Tournament

Entry forms are being circulated for the tournament at Hayling Island on 15th September.

New Members

We welcome to the Section the following new members, and old members transferred from the Southern Section and hope their association with us will be a long and happy one:—Messrs K. Chamberlain, W. M. Young, J. E. Cryer, F. Whetter, P. A. Marsh, J. Daniel, T. C. Patchin, R. J. Willey, R. J. Wicks, H. G. E. Underdown, B. Piggot, T. G. Renouf.

EAST MIDLAND

By S. Fretter

Hon. Secretary:

4 Queens Drive,
Leicester Forest East,
Leicester.

Chairman:
P. McCARRON

Annual Spring Tournament

The Annual Spring Tournament was held at Stanton on the Wolds Golf Club, by kind permission of the Committee on Wednesday, 13th May, 1970. The weather was glorious and the entry very good. Our thanks to the inside and outside staff and also to the professional for loaning us the trolleys. Also our thanks to the following for the prizes: J. Featherstone, Esq., M. Young, Esq., Chairman of Greens Committee Leicestershire Golf Club, H. Pattinson & Sons, Ransome Sims & Jefferies, Leicester Horticultural (Eng.) Ltd., A. J. E. Cook, Esq., G. Ruddle & Sons, Rigby Taylor Ltd., J. Player & Sons and Rutland Golf Alliance. Also our thanks to D. Whitehead for the buying of the prizes. Also to Mr Buckledee and Mr Vaughan for helping with the starting and cards.

The prize winners were as follows:—

Greenkeepers

1st, D. Bagshaw, Stanton on the Wolds, 69 nett; 2nd, P. McCarron, Leicestershire, 70 nett last 6; 3rd, A. Shaw, Radcliffe on Trent, 70 nett; 4th, W. Woods, Stanton on the Wolds, 72 nett; 5th, I. R. Toone, Kirby Muxloe, 74 nett; 6th, F. Frost, Derby Municipal, 75 nett; 7th, D. Warrington, Birstall, 77 nett; 8th, C. Hardy, Wollaton Park, 79 nett last 9; 9th, R. O'Hara, Stanton on the Wolds, 79 nett; 10th, C. Darby, Birstall, 80 nett; 11th, S. Fretter, unattached, 81 nett last 6; 12th, G. Arnold, Erewash, 81 nett.

Highest Score

13th, K. J. Wood, Kirby Muxloe, 126 gross.

Visitors

1st, D. Baun, 66 nett; 2nd, M. Boucher, 70 nett; 3rd, M. Dobbs, 74 nett.

Vice-Presidents

1st, R. E. Whitcombe, 78 nett; 2nd, A. J. E. Cook, 86 nett.

New Members

We wish to welcome the following new members and hope they will have a long stay with us: J. E. Durrands, Esq., "Lancescot," Willoughby Road, South Raucosby, Sleaford, Lincs.; C. J. Myers, Esq., 21 Goodwins Road, Kings Lynn, Norfolk; K. S. James, Esq., The Red Lion, Kegworth, Nr. Derby.

Pattison

THE
FIRST NAME FOR
GOLF COURSE
EQUIPMENT



WHITE NYLON
HOLE CUPS
are weatherproof,
rustless, lightweight
and more economical in
cost. New Supertough
Fibreglass Flagstuffs—Ball
cleaners for tees and
Clubhouse, Practice
Nets all sizes.

MACHINES ■ EQUIPMENT ■ ACCESSORIES
EVERYTHING FOR GOLF COURSE MAINTENANCE

H. PATTISON & CO., LTD.

STANMORE MIDDLESEX
TELEPHONE 01-954-4171

SEND FOR LATEST CATALOGUE
EXPORT ENQUIRIES INVITED

Congratulations

On behalf of this section I would like to congratulate W. H. Coles, Esq., on becoming head greenkeeper at Longcliffe Golf Club, and wish him every success.

Annual General Meeting

The Annual General Meeting will be held at The Anchor Inn, Hathern, on Wednesday, 22nd July, 1970, at 7.30 p.m. A good attendance would be appreciated.

SHEFFIELD

Chairman:
G. HERRINGTON
(Lindrick)

By H. Gillespie
Hon. Secretary:
63 Langsett Avenue
Sheffield, S6 4AA

President's Prize

Thirty-one members gathered at Hallowes Golf Club on Tuesday, 19th May, 1970, for the President's Prize competition over 18 holes. The leading scorers were:—P. Leader (Hallowes) 33 pts., H. Herrington (Rotherham) 32 pts., A. Goldthorpe 31 pts., A. J. Baxby 31 pts., A. Wadkin 31 pts.

Thanks to our President, Mr A. Shardlow, for providing such an enjoyable meal and some beautiful prizes; our thanks also to the Captain and officials of the Hallows Golf Club for granting us the use of their course, etc., and to Jack Baxby and his staff for providing such a good course. Unfortunately, Jack was not feeling too well and could not play but we were pleased that he could join us afterwards. We were also pleased to see one of our retired members, B. Crookes, walking round the course during the afternoon and looking fit and well.

New Members

We welcome the following new members to the Section and hope they find our activities of interest. G. Crofts and A. Hunt (both Rotherham Golf Club) and W. Lister (Concord Park Golf Club).

NORTH-EAST

By G. Jeffries

Chairman:
J. SIMPSON

Hon. Secretary:
55 Brackenfield Road,
Framwell Gate Moor, Durham.

S.T.R.I. Visit

On Wednesday, 13th May, 29 members of the North East Section made the coach journey to the S.T.R.I., Bingley. This was a very good turnout for the time of year and we were fortunate with the weather; it was a very warm and sunny day. After an enjoyable journey, we arrived at the Research Institute around 1.30 p.m. and were greeted by the Secretary, Mr B. M. Wood, who kindly introduced our party to Mr Sheldrick and Mr Clayton, Senior Advisor, who showed us round the grounds.

Mr Sheldrick and Mr Clayton both gave very interesting talks on the various grasses and fertilisers being used on these plots.

Questions were asked by our members and answered most adequately by these very able men. After a two hour tour of the station, our Chairman, Mr J. Simpson, thanked Mr Sheldrick and Mr Clayton for giving us so much of their valuable time, and he was sure that we were all leaving the Institute having gained more knowledge from our visit. After tea and sandwiches we climbed on board the coach for our return journey. Inevitably the usual refreshments were had on arrival at a convenient hotel, and I am sure that everyone was in agreement that this was the end of a perfect day. Of course we all eventually arrived back at our starting point!

Autumn Tournament

Our Autumn Tournament will be held on Thursday, 10th September, at the Boldon Golf Club, by kind permission of their Captain and Committee.

NORTHERN

By J. Parker

Chairman:
A. ROBERTSHAW

Hon. Secretary:
8 Goit Stock Terr., Harden,
Bingley, Yorks.

Handicaps

The following changes of handicaps have been made: D. Storey 11 to 8, D. Ward 13 to 9, J. E. Storey 24 to 22, C. Garnett 20 to 18, C. Geddes 17 to 15, A. Burge 22 to 20, J. Readhead 16 to 17.

Headquarters Sweep

Members are reminded that the closing date for the return of counterfoils and monies for the draw on the Dunlop Masters Tournament is Monday, 27th July. It is hoped that every effort will be made to make the draw a success.

New Members

We welcome to the section the following new member: Mr K. Gallagher, 7 Temple Walk, Holton, Whitkirk, Leeds 15.

Spring Tournament

I would like to thank Wolf Tools for their contribution to our prize list in addition to those acknowledged last month.

REMINDER

Have you paid your Annual Subscription? If not, it is three months overdue. Your Section Secretary will appreciate a prompt renewal.

FOR HIRE

SISIS AUTOTURFMAN AERATOR,
£25 per week—do it yourself. For
contract prices telephone Burnell,
Eaglescliffe 3647.

MISCELLANEOUS

PROFESSIONALS AND GREEN-KEEPERS having stocks of used golf balls contact Sparkbrook Golf Ball Co., 295 Highgate Road, Stoney Lane, Birmingham, with a view to filling export orders.

BUYERS' GUIDE

CLINKER, ETC.

T. PARKER & SONS, Worcester Park, Surrey.

CONTRACTORS

GILLIAM & CO. Ltd., Purley, Surrey.
MAXWELL M. HART, Ltd., Winnersh, Wokingham,
Berkshire.
JOHN R. STUTT, Ltd., Potterhill, Paisley, also at
Poole, Dorset.

EQUIPMENT SERVICING

R. C. CRAIG, Ltd., 30 Aylmer Rd., London, W.12.
GROSVENOR ENGINEERING CO., Manningham,
Bradford, Yorks.
RELF & KENDALL, 406 Brighton Rd., S. Croydon,
Surrey.
T. PARKER & SONS, Worcester Park, Surrey.

FERTILISERS

CANNOCK AGRICULTURAL CO., Ltd., Cannock,
Staffs.
CARTERS' TESTED SEEDS, Ltd., Raynes Park,
London, S.W.20.
FISONS HORTICULTURE Ltd., Recreational and
Industrial Dept., Harvest House, Ipswich, Suffolk.
MAXWELL M. HART, Ltd., Winnersh, Wokingham,
Berkshire.
T. PARKER & SONS, Worcester Park, Surrey.
STEWART & CO., Seedsmen Ltd., Edinburgh, 2.
SUTTON & SONS, Ltd., Reading.

FUNGUS CONTROL

CANNOCK AGRICULTURAL CO., Ltd., Cannock,
Staffs.
CARTERS' TESTED SEEDS, Ltd., Raynes Park,
London, S.W.20.
MAY & BAKER, Ltd., Dagenham, Essex.
T. PARKER & SONS, Worcester Park, Surrey.
SUTTON & SONS, Ltd., Reading.

GOLF TEE MATS

UNIVERSAL MAT CO., Ltd., Tileyard Road,
London, N.7.

GRASS SEEDS

CANNOCK AGRICULTURAL CO., Ltd., Cannock,
Staffs.
CARTERS' TESTED SEEDS, Ltd., Raynes Park,
London, S.W.20.
MAXWELL M. HART, Ltd., Winnersh, Wokingham,
Berkshire.
T. PARKER & SONS, Worcester Park, Surrey.
STEWART & CO., Seedsmen Ltd., Edinburgh, 2.
SUTTON & SONS, Ltd., Reading.

GREENKEEPERS' TOOLS & COURSE EQUIPMENT

R. C. CRAIG, Ltd., 30 Aylmer Road, London, W.12.
H. PATTISSON & CO., Ltd., Stanmore, Middlesex.
T. PARKER & SONS, Worcester Park, Surrey.
"SISIS" Equipment (Macclesfield) Ltd., Hursfield,
Macclesfield, Cheshire.
STEWART & CO., Seedsmen Ltd., Edinburgh, 2.

INSECTICIDES

CANNOCK AGRICULTURAL CO., Ltd., Cannock,
Staffs.
T. PARKER & SONS, Worcester Park, Surrey.

LEAD ARSENATE

F. KEEP, Ltd., 82-84 North End, Croydon, Surrey.
T. PARKER & SONS, Worcester Park, Surrey.

ENQUIRY BUREAU.—The Editor desires to point out that he will be pleased to answer enquiries from our readers, and forward to them the name and address of the manufacturer or supplier of any particular proprietary article or product used in the construction, maintenance and upkeep of a golf course. Enquiries are coming in from greenkeepers asking for such information. They may, for example, know the trade name of the article or product they wish to purchase, but may not be conversant with the name and address of the actual manufacturer or supplier. The Enquiry Bureau will gladly supply this information, and thus enable the greenkeeper to contact the manufacturer or supplier direct.

TO MANUFACTURERS.—In order that our information may be kept constantly up to date, manufacturers or suppliers are requested to forward their latest trade lists, catalogues, and any other confidential information regarding their products. By so doing the Bureau will be able to function to the mutual benefit of all concerned.

TRADE REVIEWS.—The Editor will be pleased to arrange to devote space in our editorial columns to a review of our advertisers' products, etc. Will advertisers please forward details for this purpose.

LOAMS & MANURES

T. PARKER & SONS, Worcester Park, Surrey.

MOWER ENGINEERS

RELF & KENDALL, 406 Brighton Road, S. Croydon,
Surrey.
T. PARKER & SONS, Worcester Park, Surrey.

MOWERS

BRADLEY'S, Leeds Rd., West Ardley, nr. Wake-
field, Yorks.
T. GREEN & SON, Ltd., Smithfield Ironworks,
Leeds 2.
GROSVENOR ENGINEERING CO., Manningham,
Bradford.
LLOYDS & CO., Ltd., Pennsylvania Works, Letch-
worth, Herts.
T. PARKER & SONS, Worcester Park, Surrey.
H. PATTISSON & CO., Ltd., Stanmore, Middlesex.
C. H. PUGH, Ltd., P.O. Box 256, Atco Works,
Birmingham, 9.
RANSOMES SIMS & JEFFERIES, Ltd., Ipswich,
Suffolk.
HAYTERS (SALES) Ltd., 34 Spellbrook Lane,
Bishop's Stortford, Herts.
E. THOMAS & CO. (Oswestry) Ltd. (Dept. S.6),
Whittington Rd., Oswestry, Shropshire.

SEA SAND

T. PARKER & SONS, Worcester Park, Surrey.

SPRAY EQUIPMENT

T. PARKER & SONS, Worcester Park, Surrey.
PRESSURE JET MARKERS Ltd., 152 The Arches,
Stamford Brook, London, W.6.
B.O.I.L. RAIN SYSTEMS, Upper Halliford, Shepp-
erton, Middlesex.
F. W. BERK & CO., Ltd., Berk House, 8 Baker Street,
London, W.1.

TRACTORS

T. GREEN & SON, Ltd., Smithfield Ironworks,
Leeds, 2.
T. PARKER & SONS, Worcester Park, Surrey.
H. PATTISSON & CO., Ltd., Stanmore, Middlesex.
"SISIS" Equipment (Macclesfield) Ltd., Hursfield,
Macclesfield, Cheshire.

TURF AERATING APPLIANCES

T. PARKER & SONS, Worcester Park, Surrey.
H. PATTISSON & CO., Ltd., Stanmore, Middlesex.
"SISIS" Equipment (Macclesfield) Ltd., Hursfield,
Macclesfield, Cheshire.

WEED CONTROL

MAXWELL M. HART, Ltd., Winnersh, Wokingham,
Berkshire.
MAY & BAKER, Ltd., Dagenham, Essex.
T. PARKER & SONS, Worcester Park, Surrey.

WEED CONTROL SPRAYING

T. PARKER & SONS, Worcester Park, Surrey.

WORM KILLER

CARTERS' TESTED SEEDS, Ltd., Raynes Park
London, S.W.20.
MAXWELL M. HART, Ltd., Winnersh, Wokingham,
Berkshire.
T. PARKER & SONS, Worcester Park, Surrey
SUTTON & SONS, Ltd., Reading.

new Ransomes Junior Motor Triple

73" CUT

with power driven cutting cylinders

The '73" cut' Junior Motor Triple is the latest addition to the Ransomes family of power-driven gang mowers. A compact weather-beater with ample power where you want it - at the cutting cylinders.

- Low cost, high work-rate performance with a minimum of operator fatigue will appeal to Golf Course Administrators responsible for the cutting of golf course tees and approaches.

Power driven cylinders take the 'drag' out of mowing. Wet or dry, you can go gang mowing.

Keep a step ahead with Ransomes, pioneers of power-driven gang mowing.

Ransomes Sims & Jefferies Ltd., Ipswich

All 3 cutters
power driven.

Cutters may be
raised or lowered
into work
while moving.

Car type steering.
Easy-to-reach
controls.

Variable cutting
speeds 1 to 4 m.p.h.
Road speed 6 m.p.h.

Rugged 4-stroke
petrol engine.
Electric starting
optional extra.

Fine, 60 cuts
per yard cutting.



RANSOMES

