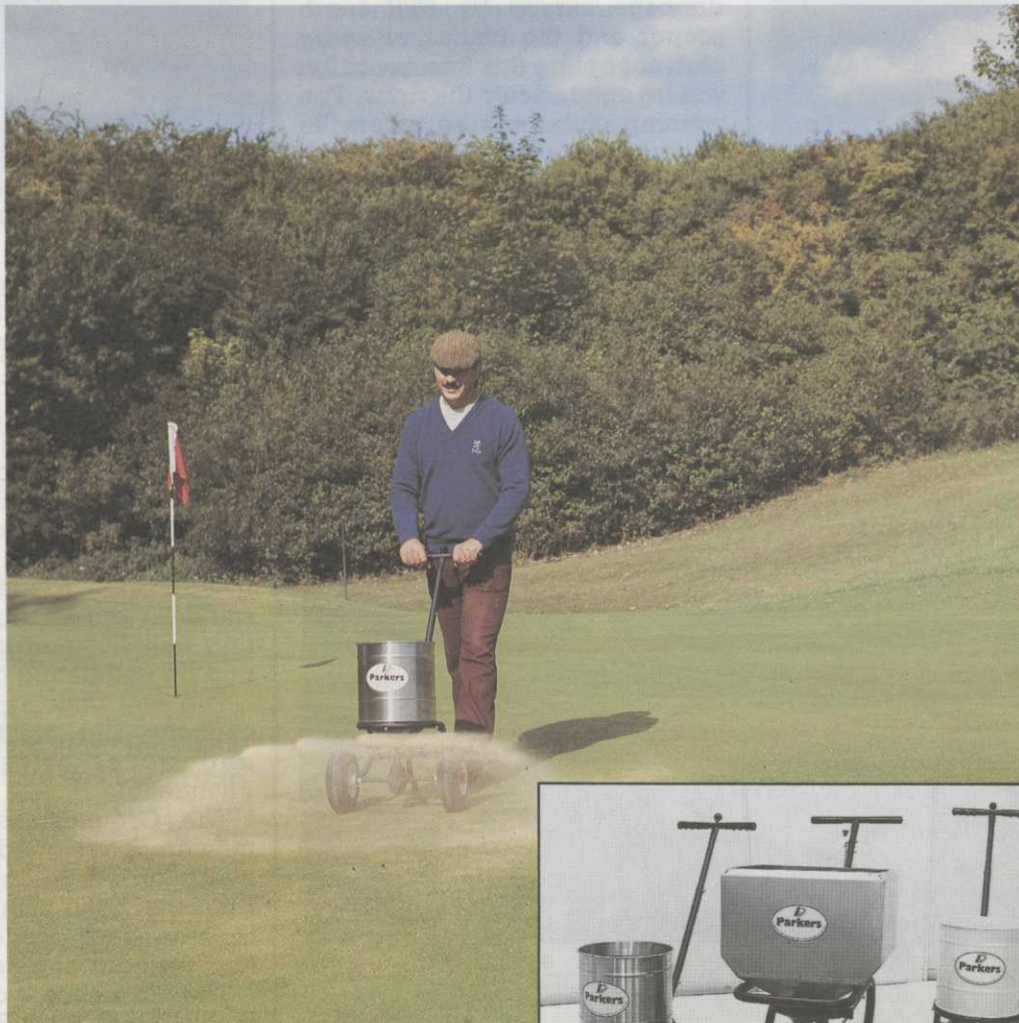


# Parkers fame is spreading\*



**\* and every other aspect of turf care and maintenance.**

With a range of four superb models designed to meet all requirements year-round, it's not surprising that more and more professionals make Parkers' Spreaders their first and only choice.

**Standard:** 40lb. capacity zinc-clad hopper with tough white epoxy finish. Heavy duty 8 inch plastic wheels cover the ground easily and safely.

**Professional:** as Standard but featuring top quality brushed stainless steel finish to hopper. Runs smoothly on 9 inch super duty plastic wheels.



**Super-Professional:** all round efficiency from this 40lb. capacity unit with stainless steel hopper and spinner shaft. Pneumatic wheels take the strain.

**Master:** a real heavy duty machine. Pneumatic wheels carry the 90lb. capacity stainless steel hopper with in built spinner and protective front bump bar.

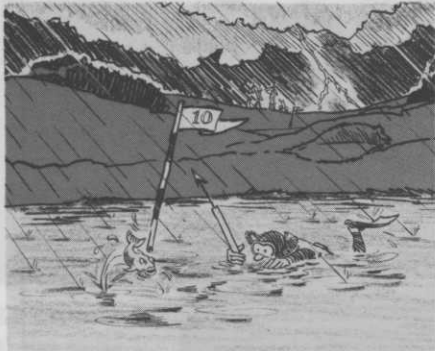
**Parkers' Spreaders - all part of our total service for grounds and green care.**



## Parkers

T. PARKER & SONS (Turf Management) Ltd., Worcester Park,  
Surrey KT4 7NF. Telephone: 01-337 7791 Telex: 24224.

## Chance For Clubs To Win Competition Sponsorship



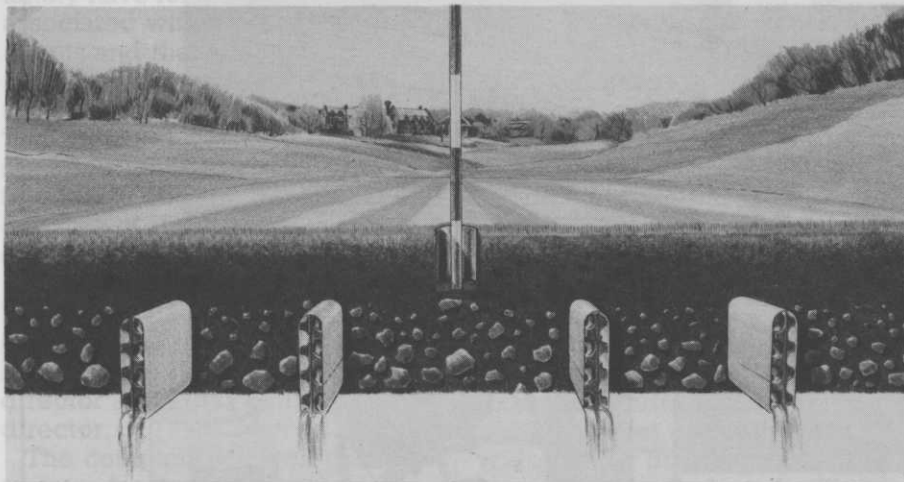
As part of their campaign to promote Hitek Fin Drains for golf courses, BTR Landscaper are offering clubs the opportunity to win a sponsorship deal for a monthly medal competition.

The campaign, commencing in August, will include a programme of mailings direct to clubs. The object is to introduce

the Fin Drain concept into this country, following its success in Australia where it was developed.

Clubs are being offered a free drainage survey by BTR Landscaper and the names of every club accepting this free invitation will be entered into the draw. Ten winning clubs will be given the sponsorship package, which includes a BTR Landscaper Trophy, together with a replica, plus prizes of £25, £20 and £14 for the first, second and third prize-winners.

Full information on the Fin Drain system, together with how to enter your club into the sponsorship draw, are available from Richard Ellison-Smith at BTR Landscaper, PO Box 3, Centurion Way, Farington, Preston PR5 2RE. Tel: 0772 421711.



Top: a course flooded continually is no joke... Above: a cross-section of a Hitek Fin Drain.

## Birdies For Wildlife

A charity pro-am aims to raise more than £20,000 to help safeguard the Cheshire countryside. The event, staged by Altrincham-based Tryangle Management International on behalf of the Cheshire Nature Conservation Trust, has set a £675,000 target as its contribution to the Royal Society for Nature Conservation's British Wildlife Appeal.

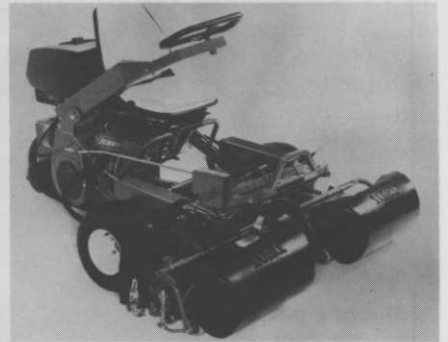
The pro-am takes place on September 28 at Dunham Forest and it is hoped that 90 amateurs will partner some 30 of Europe's

top professional women golfers, including Laura Davies, Dale Reid, Cathy Panton and Liselotte Neumann.

The British Wildlife Appeal, set up in 1985, is run by the Royal Society for Nature Conservation and aims to raise £10 million to support the continued health of our countryside.

Details of the event and the British Wildlife Appeal are available from the British Wildlife Appeal, 164 Vauxhall Bridge Road, London SW1V 2RB.

## Take It From Toro!



The Greensmaster 3000.

The new TORO Greensmaster 3000 made its first showing recently.

TORO claims to be the first manufacturer to introduce new O-Ring face seal fittings on most hydraulic lines, which reduce the potential of oil leaks.

A Kohler 16hp Magnum engine is quieter and more durable and electronic ignition reduces maintenance. Hinged lift arms are standard and an unrestricted cutting unit flotation improves traction on undulating ground.

The fuel tank has a 7.5 gallon capacity and most parts, reels and accessories are interchangeable.

The Groundsmaster range of mowers is designed to fit virtually every turf maintenance need - from the small 21in walk behind to large deck models with 27hp four cylinder engines.

There's a choice of five models in the TORO Walk Rotary range - two hand-propelled, three self-propelled, all complete with rear baggers. Width of cut ranges from 18in to 2ft. Optional extras include a leaf shredder, thatcher and side chute.



TORO's Groundsmaster.

## All-Clear Given For A New Look At Wentworth

A new multi-million pound clubhouse is planned for Wentworth, following permission from the Department of Environment to remove a temporary historic building listing on the present clubhouse.

The clubhouse has now outlived its economic use and the club's board has opted for a major new complex to be completed in tandem with a third 18-hole course.

The clubhouse design by D.Y. Davies Associates will provide more than 50,000sq ft of changing rooms, bars, reception and administration areas, pro shop, function rooms, dining areas, a large indoor swimming pool, two squash courts and a gym.

"The new facilities will be located to the north of the existing clubhouse and will take advantage of the ground's natural slope," D.Y. Davies' chairman David Davies said. "It has been sensitively designed to be in keeping with the architecture of the Wentworth Estate and will include many features contained within the existing clubhouse."

Work will start in August and scrub clearance for the new Wentworth course will begin during the summer. The new clubhouse is expected to be opened in early 1989 and the third course should be ready for play in the early 1990s.

## Sold For £1.5m

Ransomes Sims & Jefferies has acquired the business and assets of Mowing Machine Maintenance of Wath on Dearne, specialist manufacturers of cutting cylinders, blades and grinding machines for domestic and overseas grass machinery markets.

It is intended to continue operating at the Wath on Dearne premises.

Ransomes group chief executive, Bob Dodsworth, said: "This acquisition provides the group with considerable potential to develop our important spares business, especially in export markets. It will also enable us to market a superior range of grinding machines through our worldwide dealer network."

## Legislation Lecture

The IOG's north-east zone is to hold a one-day seminar on the new pesticides legislation in turf management at Sheffield United FC on Thursday October 22, from 9.45am to 3.45pm. Speakers will include specialists from the Ministry of Agriculture, the National Test Proficiency Council, Sheffield University and May & Baker Professional Products Division.

Admission, including buffet lunch, will be £10. Institute members benefit from a 50 per cent reduction.

Booking forms and further information from Derek Harrison, 20 Muirfield Close, Tapton, Chesterfield, Derbyshire S40 1SS. Tel: 0246 204338 between 5pm and 7pm only.



An artist's impression of the new Wentworth clubhouse as viewed from the course with the swimming pool foreground.

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# TREES ON GOLF COURSES

## THE PRINCIPLES OF PLANTING - BY TONY GENTIL



For the best results, conifers and deciduous trees should be planted in early winter.

**The three main types of tree that you can use for planting, forest transplants, whips and standards, all have certain basic requirements in common. They must make the transition from nursery to golf courses with the minimum amount of shock. If you give them a hard time during planting, they are likely to become so weakened that they'll fall easy prey to pests and diseases.**

The best period for planting trees is when they are dormant or in their least active state. This means that deciduous trees, those that lose their leaves in winter, should be planted during November to March. Within this period, don't plant them if the ground is frozen. I find the time between bonfire night and Christmas gives the best results because not only are the trees dormant, but the soil still retains some of its late summer warmth, which helps the rapid establishment of the root system.

Evergreens, such as pine, holly and yew, are never completely dormant and recover best when planted in October or November. During planting, the most vulnerable part of a tree is its root system. You've got to treat this area with great care if you want good results. It's not so much the main roots that are at risk, it's the thousands of tiny root hairs that are liable to be damaged.

Root hairs are so small that they are hardly visible and, because of this, it's easy to forget about them. Plants can only take in water through their root hairs and for each one damaged there is a reduction in potential water absorbing capacity. If root hairs get killed in large numbers, the tree has a problem obtaining the water it needs in spring after planting.

It's a vicious circle. Without the root hairs, it can't take in water. Without the water, it can't replace the lost root hairs.

So, how does a tree's root system get damaged during planting? Well, most deciduous trees are sold bare-rooted - that is, without any soil clinging to the roots. Even when trees are carefully lifted by the nurseryman, some of the root hairs will be broken off as the soil is shaken loose.

The root hairs are at risk all the time they are out of the soil. If they become exposed to drying winds during transportation to your golf course, then many will be desiccated to death. There are further risk if you leave the trees lying on the ground after delivery or as you carry them out to the planting site. A period as short as half an hour exposed to drying conditions will kill off most of the root hairs on a bare-rooted tree. Superficially, the root system will appear undamaged, but to all intents and purposes, the tree will be as dead as a dodo.

If you are unable to plant the trees as soon as you take delivery, cover the roots temporarily with a protective layer of moist soil.

One of the safest methods of transporting bare-rooted trees round a planting site is to use either a dumper with a watertight skip or a tractor with a bucket. Half fill the skip or bucket with water and add a few shovelfuls of soil or peat to make a slurry. Place the roots of the bare-rooted trees in the slurry and this will give the root hairs the best protection possible. Make sure that the upper parts of the trees don't chafe against metal rims of containers.

If you find that the slurry is in danger of slopping out of its mobile tank during transport, float some short planks on the top to reduce the wave motion.

Evergreens larger than forest-transplant size are not sold bare-rooted and so their root hairs do have a better chance of survival. The soil round the roots of evergreens is dug up with them when they are lifted in the nursery and held in place with a square of hessian tied round the base of the trunk.

I prefer to remove this hessian carefully just before planting because, although it is usually biodegradable, the knotted part round the trunk can take a long time to rot down and may strangle the trunk.

As a tree grows taller, so its root system increases in size. The bigger a root system is, the more difficult it is to transplant without causing damage. It follows, therefore, that smaller trees generally survive planting more successfully than larger ones.

One final point worth remembering is that, in the



Birch whips planted on a golf course.

wild, trees don't get transplanted. They grow to maturity from where the seeds fall from the parent tree. If there are any areas of natural regeneration on your golf course, see if you can take advantage of them. Can you, for instance, encourage seedling oaks to grow where the parent tree is in decline? If you can, you'll find it much easier than trying to establish imported trees.

Self-sown seedlings could, in fact, provide you with a free source of planting material. Trees up to 12 inches tall should transplant quite successfully. Seedlings much taller than this are not so amenable to disturbance because their root systems are long and fangy and difficult to dig up without extensive damage.

● The next article in this series will explain the techniques of tree planting.



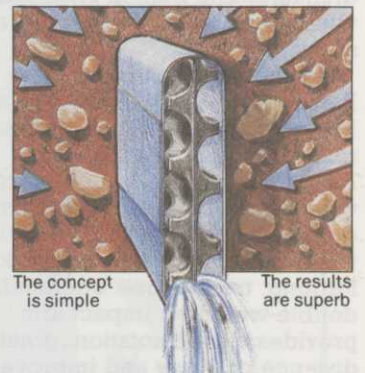
Natural regeneration of oak.



*“Remember how you’d have had to play that shot before the club had that neat drainage put in?”*

There's no bigger headache than poor drainage for a greenkeeper. The effects are disastrous for members. The cure can be chaos for the club.

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‘PAR FOR THE COURSE’

♣ BTR LANDSCAPER

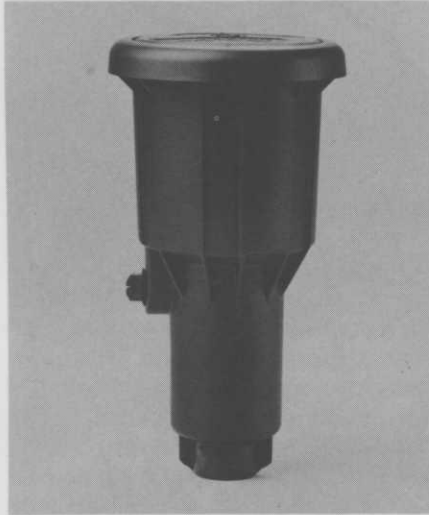
PO Box 3, Centurion Way, Farington, Preston, Lancashire PR5 2RE  
Tel: 0772-421711. Telex: 67530 BTRLEY.

## All From Wright Rain

Cameron, the horticultural, sport-sturf and amenity division of Wright Rain, has a new range of Rainbird products, for which it is the exclusive UK distributor.

The additions represent the latest of more than 100 new products introduced by Rainbird since 1981.

### MAXI-PAW



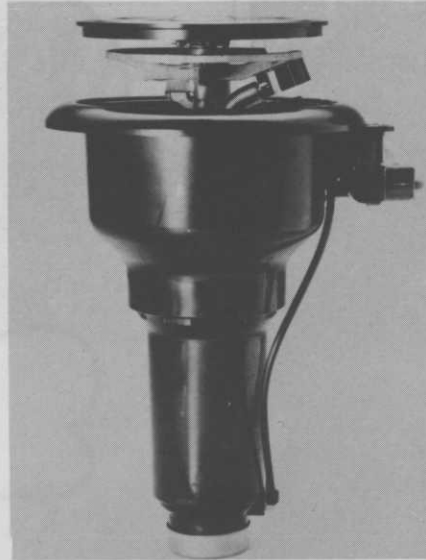
A pop-up rotor for use in medium-sized commercial turf areas, the Maxi-Paw is available with four interchangeable, colour-coded, matched precipitation rate nozzles that lock into place. The Maxi-Paw is also available with a Seal-A-Matic device that prevents puddling, run-off and erosion caused by low head drainage. The built-in SAM reduces water hammer, conserves water and saves money.

For increased durability, the Maxi-Paw rotor is constructed with a heavy duty case with reinforced ribs. The Maxi-Paw features Rainbird's patented multi-function wiper seal that assures positive pop-down. The Maxi-Paw features a water lubricated impact sprinkler for long, trouble-free operation. The double-weighted impact arm provides slower rotation, greater distance of throw and improved close-in watering. The sprinkler has full and part circle operation capability.

### 95DR ROTOR

The 95DR valve-in-head electric rotor is ideal for irrigating large turf areas, such as golf courses, football pitches, bowling greens and parks. The 95DR combines part and full circle operation capability in one unit, its circular or wheel impact drive resulting in a slower and more even rotation speed for longer life. This water lubricated impact

sprinkler has a precision moulded power nozzle to maximise radius of



throw, while its low 23° angle of trajectory provides superior wind resistance.

The 95DR contains a built-in, pressure regulating, diaphragm solenoid valve, which allows for individual sprinkler control for more flexible and precise watering while reducing system cost. The valve also serves as a SAM device to prevent run-off and erosion due to low head drainage. The 95DR's pressure regulator is field adjustable and assures even water distribution and saves energy and water. A full circle only model, the 91DR, is also available.

### R-50 ROTOR



A rugged pop-up sprinkler for irrigating medium turf grass areas, the R-50 features Rainbird's patented multi-function wiper seal that assures positive pop-down even in the worst soil conditions. The R-50 has part and full circle operation capability in one unit.

The sprinkler's small exposed surface diameter makes it almost invisible to vandals. Its patented memory arc feature always returns the rotor to its present arc setting

even if vandals tamper with it. The R-50's simple turbine drive design is water lubricated and has no expensive gears for vandals to strip. The rotor's dual bypass system compensates for pressure and flow, resulting in more uniform rotation and increased sprinkler life.

### 15-VAN

Providing a more versatile selection of spray patterns, the 15-VAN nozzle works on Rainbird 1800 series pop-up sprayheads and is ideal for watering oddly shaped areas. The 15-VAN has an infinite arc setting of 0° to 330°, eliminating the need to stock a wide assortment of fixed spray patterns.

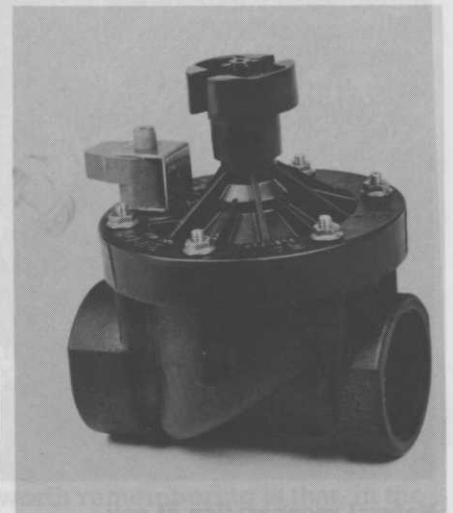
To keep the operator dry while adjusting the arc, the 15-VAN has a visible arc setting from the top of the nozzle. The 15-VAN has a radius adjustment screw, which allows the radius to be reduced for smaller areas.

### PES - ELECTRIC PLASTIC SCRUBBER VALVE

PES scrubber valves are effluent water valves that contain a self-cleaning, flow-activated scrubber consisting of a stainless steel cylinder screen and a plastic scraper. The scrubber keeps algae, micro-organisms or silt from clogging the valve control parts, thus giving trouble-free operation in very dirty waters.

PES valves are available in two sizes and can be ordered with an optional pressure regulating device, the PRS-2, which senses inlet pressure and maintains constant outlet pressure despite fluctuations in mainline pressure. This ensures better sprinkler performance and saves water and energy. PES valves have a brass flow control stem and manual on/off capability. PES valves provide brass valve features, including high pressure operation of economical plastic valve prices.

Prices and details of the new products are available from Cameron on Littlehampton (0903) 713985.



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## **Watermation** FOR GOLF COURSE IRRIGATION

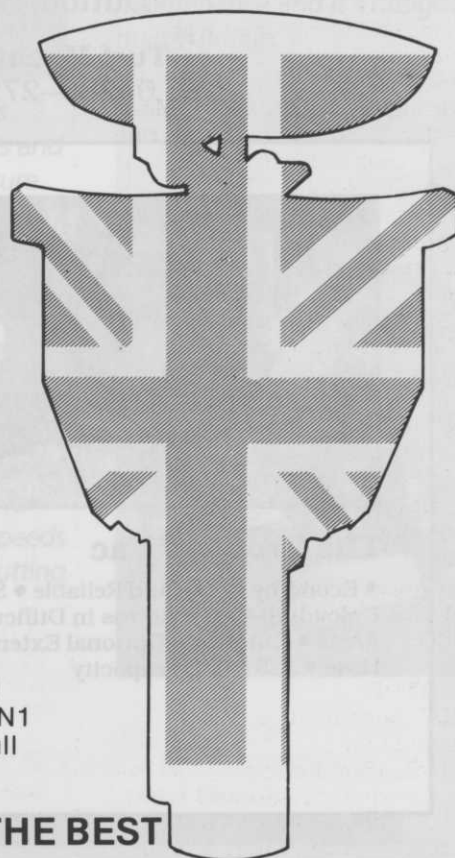
Rainbird sprinklers are made in California, so are Toro, so are Buckner. Weathermatic sprinklers are made in Texas, Perrot sprinklers are made in Germany and Roland are made in France... but

### **Watermation Sprinklers are made in Britain**

Along with their unique TW1 and TW2 computer controllers and other specialist equipment, Watermation have now designed and built their own GN range of sprinklers. Apart from keeping their own people in work, there are other advantages to buying British. The prices won't be subject to increase with the dollar, deutschmark or franc and there are always spare parts quickly available.

We don't expect you to buy Watermation sprinklers just to be patriotic. They are high quality sprinklers made from brass, bronze and stainless steel in a heavy cast corrosion resistant body. The internal mechanism has a multi fit guide plate so that it can be used to refurbish the Rainbird 21-47 range or the Weathermatic K range — thus saving money.

All the GN sprinklers have thick moulded green rubber tops and have been specially designed for golf course irrigation — the GN1 for tees, the part circle GN2 for the greens and the long range full circle GN3 for fairways.



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# The ultimate greens machine.

**T**he Ransomes GT is the ultimate greens machine.

It's fast, efficient, economical and incorporates a host of features to give you more control over mowing operations than ever before.

With a working width of 1.68 metres, the GT has 9 knife cutting units for that special finish and a choice of optional units for tees mowing, vertical cutting and vibra-spiking. All units are interchangeable without the need for tools.

Powered by a diesel engine for maximum economy, the GT is distinctly quieter in operation. The low slung engine ensures excellent stability to negotiate slopes and banks.



And the GT is all hydraulic for maximum efficiency.

Hydrostatic transmission lets it travel up to 12km/hr. Hydrostatic drive provides instant forward and reverse with infinitely variable speed by a single pedal. Combine that with power steering and manoeuvrability is exceptional.



A second foot pedal controls the lift and lowering of the units and the hydraulic drive. A unique feature is the electronic push button control which allows the units to be locked out of work in any combination for perimeter cuts. It also controls drive and lift functions for service use.

To ensure the right finish there's a digital cuts per metre readout. The working speed and cutting ratio can be predetermined and maintained for every green. Higher transport speeds do not affect the pre-selected cutting ratio.

The units are programmed to lift and lower in sequence to finish or start precisely at the same point on the green. A backlapping facility is built in to keep the cutters razor-sharp.

For ease of accessibility to empty the grasscatchers or for routine maintenance the operator's platform is simply raised in seconds by releasing a single latch.

Yes, the Ransomes GT heralds a new era in greensmowing excellence. It brings a new style in golf course maintenance and it's designed and built in Britain.



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Arcot Hall  
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### HEAD GREENKEEPER

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*Apply in writing, enclosing full C.V. to:-*

Secretary/Manager,  
Lahinch Golf Club,  
Lahinch,  
Co. Clare,  
Ireland.