relies on golfers being able to move fairly freely and fast.

Head Greenkeeper, Kelvin Dudley, said that the current set, bought second hand from B.S. Mowers of Bristol, were proving ideal and succeeded a set which had reached the end of their economic life - nevertheless they have been traded-in. The five bladed units are mechanically driven but mounted on a Jacobsen Ranger trailed hydraulic lift and fold frame. Kelvin said that one of the greatest advantages is that they follow contours extremely well. Broome Manor has several ex-highway tractors in its fleet and these are ideal for operating the mowers. A previous wrap-around tractor mounted set had proved less than ideal because the extra weight on the tractor caused rutting on the wet ground, was difficult to remove quickly, and did not follow contours well.

The Jacobsen frame allows the operator to work with three, five or the full seven units down, thus he can cut narrower strips or cut between trees etc, while the full set gives fast coverage of the area. Normal cut height is around 60mm (2 to 3 ins).

Because this configuration of mower has limited demand generally, the price was reputed to be right, especially as the set had seen very little use. To date there have been no reported problems and no breakdowns, and maintenance is simple – just a quick grease round.

Cutting during the growing season is normally carried out about every fortnight, thus there are no problems with a clippings mat left over the ground.

Major two rotor rollermower on a Carraro at Marlborough Golf Club

Marlborough had been using a flail mower/scarifier unit for its semi and attended rough, but this was taking a considerable amount of time – about 14 days, so the decision was made to buy a faster rotary mower.

Danny Dobie, Head Greenkeeper, said that they looked at several options before it was decided that the Major Equipment rotary mower on a reverse drive Antonio Carraro Tigretrac 3800 (pictured) would be ideal.



Simple costing showed that this combination was several hundreds of pounds cheaper than a purpose-built self-propelled out front rotary, furthermore it gave the club a compact tractor which could be used for other operations. In fact, on demonstration, a greens slitter was fitted and proved that the tractor was ideal for this operation.

Reverse drive, with the mower mounted on the linkage and the driving position reversed gives the operator an exceptional view of his work, and exceptional manoeuvrability, all the attributes normally expected from a self-propelled out-front rotary. The club cuts its semi-rough weekly to a height of about 50mm (2in) while the attended rough is cut about every six weeks to a height of about 150mm (6in).

The mower is pto driven and has twin contra-rotating rotors, two adjustable leading castor wheels and a rear depth control roller. The combination has been in operation at the club since March and during this time there has been a breakage on a castor wheel arm which was re-welded locally, and a problem with a bearing which resulted in it being out of commission for a week, – having to go back to cutting with the flail mower proved to Danny the speed and value of the new machine.

While scalping is almost impossible in some circumstances it is possible to get the side frames to cut into the edges of banks. Cut grass is discharged from the centre back of the unit and no problem of swathing has been encountered. However, in wet conditions there can be some buildup, and dropping, of grass on the roller.

Overall Danny is very pleased with the combination which has cut down the 14 day operation to one of three days. He commented that it would "go anywhere" (the club has some steepish banks), and it is extremely surefooted and safe, but above all it is "fast."

Amazone Heavy Duty Groundkeeper at Ogbourne Down Golf Club

The Amazone Groundkeeper is a pto driven flail mower which can scarify and in heavy duty form as at Ogbourne, it is semi-mounted and has a very large capacity hopper to collect the cut grass or other debris. At Ogbourne it is fitted to a 42hp Kubota L4200 with four wheel drive and while it looks as if this tractor is too small to control the Groundkeeper which has a 2.45m width, Nick Pusey, Head Greenkeeper, said that in fact the only time there is any hint of a problem of stability is on steep hillside in damp conditions when the hopper is full.

In particular, the machine is used prior to competitions as it does produce a very satisfying groomed effect. The normal pre-match preparation is to cut the first three strips

Greenmaster Autumn leaves the others behind



Greenmaster[®] **Autumn** is a unique five-way fertilizer for perfect autumn and winter performance on all fine turf. The lightweight, uniform, easy to see granule ensures even coverage. It quickly breaks down for maximum performance and minimal pick-up.

- Provides 35kg/ha of potash to harden soft growth and prepare turf for winter.
- Low nitrogen level will not encourage disease.
- Balanced level of phosphate promotes root development and strengthens the sward.
- Contains 6% iron for moss control and colour enhancement.
- High sulphur, acidifying formula helps control soil pH.

GREENMASTER PUTS YOU IN CONTROL



If you would like to know more please call our Technical Services Manager on 01473 203143 or contact your local Area Sales Manager:

South - Chris Briggs Tel: 0378 603103 (mobile) or 01273 675966

Midlands and Wales - Roger Moore Tel: 0378 603052 (mobile) or 01832 710076

N. England, Scotland & N.I. - Richard Walton Tel: 0378 603091 (mobile)

Always read the label : Use pesticides safely.

CREENMASTER AUTUMN (6-5-10) contains 6% iron as ferrous sulphate. GREENMASTER and THE LEVINGTON DIFFERENCE are registered Trade Marks of Levington Horticulture Ltd. © Levington Horticulture Ltd. 1997 AD

Tough on turf disease



- Immediately effective against a wide range of turf diseases including Fusarium patch, Red thread, and Dollar spot.
- Will not scorch or damage turf.
- Unique rainfast formulation allows application all year round but especially useful during the cooler months.
- Available in 1 litre and new 5 litre containers.
- The No 1. choice for turf professionals for over 11 years.

NOW AVAILABLE IN 5L CANS

AD REF

Rovral Gree

P RHÔNE-POULENC

Tender on tur



Rhône-Poulenc Amenity, Fyfield Road, Ongar, Essex CM5 0HW. Telephone 01277 301114 Fax 01277 301119. ROVRAL GREEN CONTAINS IPRODIONE. READ THE LABEL BEFORE YOU BUY: USE PESTICIDES SAFELY. (MAFF 05702)

For details of your nearest Rhône-Poulenc distributor, call 01277 301116

Rovral Green

Contains 250 g/L (24.3% w/w) iprodione

A CONTACT-ACTIN<mark>G BROAD</mark> SPECTRUM FUNGICIDE FOR TURF

IRRITANT

TO SKIN AND EYES 田美县委团团组委委委委委员会通行





Amazone Heavy Duty Groundkeeper

round the fairways as semi-rough at a 50mm height and a further four strips at a 100mm height. The machine is also used at maximum height in the autumn in order to tidy up outlying long grass and prevent it going into winter this way. An advantage of the Groundkeeper is that because it has a hopper all the cut grass and debris is collected and removed from the course. Scarifying blades are fitted as standard.

In the 18 months that the club has had the machine, it has required one new belt and, a few days outside the warranty period, the drive keyway on the main rotor was found to have worn out. Nevertheless, overall Nick is happy with it and certainly with the finish it leaves.

Toro Contour 82 at Clandon Regis Golf Club in Surrey

James Watson, Head Greenkeeper, visited USA last winter, saw the machine launched and was impressed. On getting home he asked John Colebrook, of lan Kerry Machinery, when he could get one. The answer arrived in June this year.

The Contour 82 is a 2.1m (82 in) cut multi-deck out-front machine based on the Toro Groundsmaster 3000D power unit and while it is not cheap, James commented that it does do a magnificent job and it is virtually unable to scalp the ground. He added that some of the rough at Clandon which is a new course is not very level and has significant landscaping. This has made the Toro Contour an ideal machine to use.

The power unit has a 35hp engine and four wheel drive which will take it anywhere. Manoeuvrability is exceptional and the operator has an excellent view of the decks and what he is cutting into. James said that his greenkeepers have found it a very comfortable and easy machine to use. Semi-rough is cut to 38mm (1+in) height, using the machine up to three times a week when it produces a very clean cut with minimal grass left on the surface. James expressed great satisfaction with the finish and added that it claims ability to recycle up to 50% of the cut grass. On the true rough a conservation policy to protect the fauna means that cutting is not started until late summer, and then the machine is operated at a maximum height for the decks of 100mm (4in). The bulk of grass, perhaps 400mm plus high, required the area to be cut twice in order to produce good finish.

Since receiving the machine there have been a couple of teething problems with the hydraulics – decks are powered hydraulically – but these have been easily and quickly resolved. Obviously adjusting height takes slightly longer than with a conventional rotary deck, and there are more greasing points to be serviced, however this is not considered to be a major problem.

Wessex RM24 at North Wiltshire Golf Club

Mounted behind a Kubota L4200 and pto driven from it, the Wessex RM24 is a substantial machine with a wide cut (2.4m), three rotors and rollers front and rear under the deck. Bought to replace a narrower and slower machine the Wessex is used on all the roughs at North Wilts as well as occasionally for topping seedheads and stalks on other areas. The club also has a Kubota out-front rotary for trimming around trees and other areas where it's narrower width and greater manoeuvrability is more ideal. The Kubota machine is quick and easy to adjust and therefore it is used for tidying up areas where the Wessex cannot easily reach. Height is seldom adjusted on the Wessex.

First Assistant, Glen Timms, said that the RM24 was a large and heavy machine, and one which needed the front loader on the tractor in order stabilise the tractor and add enough weight to the front. North Wilts have also found it important to keep the check chains on the linkage tight to minimise sway. There is a real fear that "the tail will wag the dog", even to the extent of overturning the tractor.

The club has had the machine

MORE RUBBISH FOR YOUR MONEY

The Turf Tidy's unique suck and throw developed by Charterhouse ensures that every load taken to the dump

comprises material compressed to its minimum space and the hopper filled to its maximum. This saves its operator or owner **time**, **trouble** and **money**.

material compressed to its minimum



hopper filled to maximum

It's only with the Charterhouse Turf Tidy that you get **MORE RUBBISH** FOR YOUR MONEY The multi-functional Charterhouse

scarifies, flail mows, and then sweeps up

Turf Tidy

For more details send this coupon to Charterhouse Turf Machinery Ltd, FREEPOST (GI/2283), Haslemere, Surrey GU27 1DW.	0.97
Name:	
Position:	
Address:	
Postcode:	

AD

GREENKEEPERS'

In 1997 the companies named below will between them make a major contribution to BIGGA's Education Fund. Golden key members contribute a minimum of £3000 per year while Silver Key members contribute a minimum of £1000 per year.

BIGGA will utilise the money to:

- · Subsidise Management supervisory courses.
- Produce Educational posters
- Provide Field Guides
- Provide an Education and Training Opportunities booklet

The Golden and Silver Key scheme has been in operation for six years. In that time members' contribution to BIGGA's Education and Development Fund have facilitated the following association membership benefits and services:

- Management supervisory courses at reduced rates.
- Golf Course Preparation Video
- Golf Green Reconstruction Video
- · Golf Course Ecology Video
- A Practical Guide to Ecological Management of the Golf Course Book
- Field Guide Booklets

Golden and Silver Key members continue to share a commitment to the future of the greenkeeping profession, raising its profile and educating its members.

BIGGA THANKS THEM FOR THEIR CONTINUING COMMITMENT TO GREENKEEPING

GOLDEN KEY

AMAZONE GROUND CARE BAILEY'S OF NORFOLK BARENBRUG HARDI LTD HAYTER LTD JACOBSEN E-Z-GO TEXTRON JOHN DEERE LTD KUBOTA UK LTD LEVINGTON HORTICULTURE LTD MIRACLE PROFESSIONAL MOMMERSTEEG INTERNATIONAL OCMIS IRRIGATION UK LTD PGA EUROPEAN TOUR RANSOMES RHôNE POULENC AMENITY RIGBY TAYLOR LTD RITEFEED SUPATURF PRODUCTS LTD THE TORO COMPANY WATERMATION B E A BIGGA GOLDEN KEY CIRCLE







Wessex RM24 on Kubota L4200

since the beginning of the year, and while Glen said that it had caused no problems, on inspection prior to photographing it for Greenkeeper International he noticed that one of the roller bearings looked suspect. No other repairs have been needed, although when delivered noise from two of the rotors needed rectifying by a generous portion of grease – leading to an assumption that either an assembly or pre-delivery maintenance had been omitted.

Because the machine is so heavy, North Wilts have found it important to raise the cutter from the ground before turning, especially where the ground is not flat to prevent the side skids ripping up the ground.

Normal cutting height is about 100mm (4in), however, the machine will take grass which is up to 460mm (18in) high although it is necessary to slow forward speed. Usually the club cuts the roughs regularly before they are more than about 200mm (8in) high.

The cut grass is left on the surface, and while wheel marks are evident, because the area is "rough" there is no criticism of it.

Ransomes Frontline 951D at Stockwood Vale nr Bristol

No apologies are made for returning to Nick Tyley, at Stockwood Vale, for a review of this machine, as a previous visit had discerned its existence and the problems it had faced. However, several months have passed and Nick commented that both T H White and Ransomes had been 100% in their support and have always responded quickly and effectively. This meant that the machine was now functioning well and doing what it was bought to do extremely well. He pointed out that Ransomes went to great lengths to set the machine up correctly for the course and usage.

The Frontline follows a range of Ransomes' machines – previously it was the Rider Rotary T-51D – and it is

a rugged out-front self-propelled rotary with a front deck and two wings – hence it is also known as the "bat wing". The decks are driven individually by hydraulic motors. The traction is also hydrostatically driven and is what Nick called assisted four wheel drive, with rear wheel drive provided "on demand" by a foot switch.

Full cutting width is 2.95m (114in) but with wings folded the 951 will work the centre deck only with an overall width of 1.55m (61in) and this enhances its versatility so that it can trim around trees and in other confined areas. For the operators, Nick said it is a "dream machine", easy to operate and extremely manoeuvrable. Such is its turning ability that it can cut square corners or back alongside a previous cut without shunting and furthermore turning with the decks down does not mark the turf. The official turning radius is given as 430mm (17in) - using power steering and full lock, the machine also has independent wheel brakes.

The 50hp Perkins engine provides ample power and although it gives the impression of being a thirsty machine, it does cut a lot of grass in a day. Stockwood Vale has some demanding banks and it copes with these easily although there are some reservations over its surefootedness in the most adverse circumstances – going uphill, nevertheless it feels extremely stable.

Cutting height is varied, easily, from about 25mm to 100mm as it is used for a variety of parts of the course. In addition to cutting rough and semi-rough, it has the jobs of destalking, and tidying fairways after verti-cutting. Maintenance with the possible exception of oil filter changing is rated as 'very easy.'

Stockwood Vale bought the 951 to do exactly what it is doing, without any competitive demonstrations and Nick is quite happy with its ability and versatility. And he is extremely happy with the back-up he has had. He admitted that he was initially disappointed with the performance, but now with Ransomes having set it he is extremely pleased with it, adding that he thought it "would cut anything". But perhaps the most crucial question was whether he would buy another, and the answer was an unequivocal "yes".

Course tired, listless, feeling worn out?

TORO

Golf course turf is continually under pressure, constantly suffers from stress and is regularly subject to an amazing range of injuries deliberately inflicted. Is it any wonder that sometimes it looks a little off colour!

TORO

To alleviate many of these problems, and assist turf recovery, Toro irrigation systems have been specifically designed for the individual needs of the course. To ensure these systems are designed and installed to the highest standards, a regional network of specialist dealers has been appointed to provide a quality and affordable service.

Just add water. TORO UK Distributor for Toro Irrigation Products For more information call 01425 476261 T.L. Irrigation Limited, Water House, 10 Carvers Industrial Estate, Southampton Road, Ringwood, Hampshire BH24 1JS.

Tel 01425 476261 Fax 01425 472380

GREENKEEPER INTERNATIONAL October 1997 55

AD

REF

Buyers' Guide

The most cost-effective way of reaching readers of *Greenkeeper International*. Simply ring Amanda Mayo, Jenny Panton or James McEvoy on 01347 838581 and ask about an alphabetical category listing: the cost starts from as little as £28 per month.

Artificial Grass

Gabbotts Farm Barn.

Bury Lane, Withnell,

Agronomy

GRASS SCIENCE

GOLF COURSE CONSULTANTS COURSE MANAGEMENT IN-DEPTH AGRONOMY ADVICE MANAGEMENT OF CONSTRUCTION AND RE-CONSTRUCTION PROJECTS FULL ANALYSIS SERVICE For more details and a brochure contact:

Grass GRASS SCIENCE Science Garside Street Tel: 01204 366036 Bolton Fax: 01204 385276 BL1 4AE



offers a practical and scientific approach to problem solving and an all-round service towards cost-effective golf course construction and maintenance

Introductory visits without obligation

25 Cheviot Close Te Tonbridge TN9 1NH 01

Tel/Fax NH 01732 350351



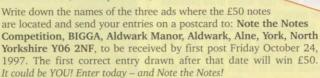
SCUTTLE For Humane Rabbit Control

YOU'RE ONTO A WINNER WITH GREENKEEPER INTERNATIONAL

Find three tiny £50 notes – win a real one, for free!

HERE WE GO with another chance to WIN £50 with Greenkeeper International!

All you have to do is take a look at this £50 note symbol. Now look through the ads in the Buyers' Guide section and spot THREE of them – they've been reduced in size, but they're there, somewhere!



Judges' decision is final. Not open to BIGGA sta

Philip Jones, Assistant Greenkeeper with Kingsdown Golf Club was the lucky winner of last month's competition – a crisp £50 is on its way, Philip. It could be YOUR TURN this month!

	and the second second
Animal Repellents	
AIRWAYS DISCREET CONTROL CONSULTANCY ENVIRONMENTAL SERVICE & TRAINING Rabbits & Moles Our problem ! SPRINGER HOUSE: WINDMILL LANE KEMBLE · CIRENCESTER GLOS · GLT GAN TEL: 01285 770919 FAX: 01285 770910	Ho Nigel G Swa Telford: Esse Tel: 012' E-Mail: Sw BRITISH IN
Amenity Spraying	
 alk to the Professionals First Vertidraining Fertilising Top Dressing Contract Spraying All leading brands of Seeds, Fertilizers	If your your under Am 01
WEED FREE® PROFESSIONAL PESTICIDE APPLICATION AND ASSOCIATED TURF SERVICES FOR ALL YOUR SPRAYING REQUIREMENTS Tel: 07000 481011 Fax: 07000 481022 Mobile: 0850 300104 Unit 12 Lindenhill Road, Bracknell, Berkshire RG42 1UT. Weed Free' and the Daisy logo are registered	BRITIS COU Repres Practices worldw services feasibi detailed a project r Merris Gu

Trade Marks

Architects



COURSE ARCHITECTS Representing the leading European Practices in golf course design, working worldwide and offering professional services from initial site appraisals and feasibilities, conceptual designs, to detailed architecture, specifications and project management and construction design. Merrist Wood House, Worplesdon,

Guildford, Surrey GU3 3PE Tel: 01483 884036 Fax: 01483 884037





GREENKEEPER INTERNATIONAL October 1997 57







Tel: 01225 334838 Fax: 01225 442028

