

triplex mowers, and the 18-inch reels perform better on undulating fairways, he says. The result is a better overall quality finish even under challenging conditions. In addition, an 80-inch-wide cut pattern improves visual aesthetics by adding definition.

"Again," Jones says, "compared to present alternatives, the Super LF-1880 has better productivity (80-inch cut vs. 62 inches) and better performance (18-inch, eight- and 11-blade reels compared to 22-inch, seven-blade reels)."

Joe Alonzi, superintendent of Westchester Country Club, Rye, N.Y., uses five Super LF-1880s on the West Course, which hosts the PGA Tour's Buick Classic.

"The tighter striping looks great on television," he says. "The quality of cut is better than a triplex, and with an 80-inch-wide mower, we can put more stripes in a tighter area compared to a 100-inch-wide fairway mower."

Last year's tournament was hampered by heavy rain. Alonzi says the LF-1880s allowed him to mow the fairways despite the weather.

"Water was shooting out of the cuttings and away from the mower like a boat wake," he says. "There were areas I couldn't walk across without leaving a mark, but the LF-1880s went through without leaving a mark."

Productivity is equally critical to Alonzi.

"We have to have great conditions, but with 45 holes, including a 9-hole executive course, I need more efficiency than I would get with triplex mowers," he says. "Most fairway mowers are too heavy to accomplish what we want, while triplexes require too much manpower. On our 36 regular holes, it took four to five people to mow fairways with triplex units, compared to three with a five-gang unit. Like anyplace else, we have to complete fairway mowing before golfers begin play."

At Arnold Palmer's Bay Hill Club in Orlando, Fla., quality is paramount, with productivity close behind. The maintenance staff uses three Super LF-1880s.

"This mower is the ideal choice for us," says superintendent John Anderson. "Its 80-inch-wide cut gives us the striping look we want. And because this machine is lighter, we can mow in wet conditions and not damage the course."

Anderson says his staff doesn't sacrifice productivity with the Super LF-1880. Because its five reels have a greater frequency of cut than larger mowers, op-

erators can mow at a faster ground speed.

"We mow our fairways in about the same amount of time as we did with larger units," he says, "but we get much better striping with the LF-1880s."

Quality of cut is not an issue. Anderson adds, "The mower's 18-inch reels give us a much better cut going over undulations, compared to a traditional fairway mower with larger reels. The faster reel speed provides a crisper cut."

Deere command arm provides fingertip control

Superintendents will find increased productivity and operator comfort on John Deere's C-Series lightweight fairway mowers, according to John Deere product manager, Tracy Lanier.

For operator comfort, the command arm on 3225C and 3235C mowers puts the key switch, mow switch, throttle lever and raise/lower lever conveniently at the operator's fingertips. The patented "white box" controller is easily viewed from the operator's seat. The controller also offers quick, on-board electrical diagnosis for less operator downtime.

Additionally, a new hood constructed of strong, flexible composite material improves the appearance, sound level and durability of both machines.

Other improvements include:

- The 3225C is equipped with a three-cylinder, 38.5-hp, liquid-cooled diesel engine. It comes with a standard 22-inch, seven-blade cutting unit, or it can be specified with a 22-inch, five- or eight-blade Extra Strength Precision (ESP) units.

- The 3235C is equipped with a three-cylinder, 48.5-hp, liquid-cooled turbo-charged diesel engine. It can use the seven-blade, 22-inch standard or five-, eight- or 10-blade, 22-inch ESP cutting units.

- A large-capacity oil cooler is standard on all C-Series models. This feature is ideal for heavy-duty mowing conditions with high ambient temperatures, or when operating under heavy loads, such as verticutting or scalping for overseeding.

- Maximum mowing speed for both models is seven mph with a transport speed of 11 mph.

- Both models have an 18-gallon fuel capacity for all-day operation.



Increased productivity and operator comfort are the leading enhancements to John Deere's C-Series lightweight mowers.

- Mowing width of the new 3225C and 3235C is a productive 100 inches.

- An increased number of hard lines in the hydraulic system reduce the possibility of leaks.

- The cutting units on C-Series mowers are lifted and lowered by a single-lever joystick.

- Both units come with standard 50-watt Halogen headlights and tilt steering.

- Both models are available with optional cruise control and 4-wheel drive.

"We are committed to being on the leading edge of technology," says Lanier. "More demands are being placed on superintendents, and they want the latest features so their courses can look their best and their staff can be productive."

The Atlanta Athletic Club, Duluth, Ga., has been using the 3235B fairway mower for several years. The Highland Course hosted the 2001 PGA Championship. Superintendent Ken Mangum says several individuals have input on equipment purchases.

"The people who drive the mowers and work on them every day have a significant impact on what we buy," he explains. "Price is important, unless it is outweighed by a mower that isn't comfortable for operators to use, or easy for technicians to work on. Finally, a manufacturer can have a great piece of equipment, but if we can't get parts in a timely manner, we won't buy that mower."

Mangum says his John Deere fairway



Toro offers turf groomers on its 7-inch diameter fairway cutting units (top unit). Toro's optional powered rear roller brushes (lower) minimize unsightly grass clippings on fairways.

Photo:Toro

mowers deliver a quality cut, are dependable and easy to service.

"The number of years we have been using these mowers speaks to our satisfaction with them," he says. "We have to have backup for our equipment. The parts availability and service support we get from our dealer are superior to anything else we've experienced."

Turf groomers are an option on Toro fairway mowers

Turf groomers are generally recognized as a device to increase green speed without lowering the height of cut. An additional benefit groomers provide on all surfaces is healthier turf. Toro now is offering turf groomers on its seven-inch diameter fairway cutting units.

Prior to turf groomers, many superintendents used verticutters to reduce thatch buildup and cut horizontal runners choking turf. Unfortunately, verticutting knives slice deeply into the turf, taking up to 30 days to completely heal.

On the other hand, a turf groomer's powered vertical knives rotate through closely spaced roller slots to remove thatch and cut horizontal runners, exposing the growth zone to more air, light, water and nutrients. The action of the turf groomer promotes a healthier, deeper root system and helps smooth out irregularities in the turf. The depth the knives penetrate the turf is fully adjustable to prevent turf damage while providing light aeration to the soil. The turf groomer's short roller base closely follows ground contours to deliver maximum results.

Toro's optional turf groomer:

- Attaches to all 03860, 03861 and 03862 cutting units used on Reelmaster 5500, 6500 and 6700 fairway mowers.
- Features tool-less engagement into

the grass and the raised position.

- Are adjustable to 3/16-inch below height of cut.
- Powers off the reel spinning in the same direction for optimal lift and quality of cut.
- Can be used with or without the Powered Rear Roller Brush Kit, Model 03876.

Powered roller brushes fine tune fairways

Toro's optional powered rear roller brushes minimize unsightly grass clumping on fairways. Since most courses are mowed in the morning when grass tends to be wet, clippings naturally stick to rollers and build up. Then, when rollers are scraped, the sticky grass drops off in big clumps. By sweeping the rear rollers of Reelmaster units while mowing, these brushes remove grass clippings and disperse them more loosely. That's a big advantage because with roller brushes operators won't waste time and effort breaking up grass clumps left behind on fairways.

The brushes also make a big difference with other sticky substances on rollers such as bird droppings or tree seeds.

Tom Fischer is superintendent of Edinburgh USA Golf Course in Brooklyn, Minn. He says the brushes make a difference on his course.

"We don't have the clumping that we used to," he explains, "and our fairways look a lot cleaner."

Besides, an improvement in the appearance of his course, Fischer points out that the trouble-free roller brushes have cut down on his labor demands.

"We don't have to go out and pick up clippings," he says. "That was our alternative to keeping the grass off the fairways. Sometimes we even had to use a blower to

break up grass clumps."

Easy installation

The brushes are easy to install and operate. They use a reliable belt-driven system that is powered off the reel. Simply plug a brush into the driver on the end of the shaft and adjust it when the mowers are set up. The brushes work through a range of height of cuts, so fairways are always covered.

"The power brush attachment kit is quite economical, especially when you compare it to the labor you save on clump removal and after-cut maintenance," says Toro marketing manager Tony Ferguson. "Many superintendents are familiar with power brushes for dispersing grass clippings with greens mowers, so the concept is a proven one. Used in combination with turf groomers, superintendents can make their fairways as beautiful and playable as their greens."

National Mower introduces triplex mower

Designed with a low center of gravity and a heavy-duty front end, National Mower's 8400 hydrostatic triplex mower tackles hills, slopes, banks and edging. The mower's hydrostatic drive provides independent reel and ground speeds for an ideal cut at various speeds. Electric reel clutches turn on and off all three cutting reels simultaneously for added safety.

The 8400 includes power steering for extra control while trimming difficult areas or negotiating tight corners. The mower is powered by a 16-hp Briggs & Stratton Vanguard engine and has an 84-inch width of cut that covers 3.5 acres per hour. GCN



Designed with a low center of gravity and a heavy-duty front end, National Mower's 8400 hydrostatic triplex mower is designed to tackle the most difficult slopes, bands and edges.

Photo:National Mower

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MarkSmart Golf Flag System

The MarkSmart Titanium Series Golf Flag system features a two-tone design with titanium-colored ribbing and web sleeve. The design allows application flexibility and flags come standard in solid colors, diagonals or checks. The Shakespeare 1/2-in. Flagstick holds the DELRIN Flag Ferrule. The system includes the new White Metal Golf Cup, and a chrome-coated zinc casting with polycarbonate crowns. **Circle 201 on reader service form**



Custom Bridge Kits

Bridge kits from Custom Manufacturing, are designed to your specifications. Styles include flat to arched, with horizontal or vertical railings, or just a curb. Kits can be fabricated to fit existing footings. The bolt-together construction allows removal. Steel I beams are pre-drilled for deck planks, post and cross members. The lumber is arsenic-free, pressure-treated wood and all steel parts have a red oxide primer.

Circle 202 on reader service form



John Deere ZTR Mower

John Deere's 717A and 727A Mini-Frame Z-Trak ZTR commercial mowers feature maximum maneuverability. Both models feature a vacuuming action that lifts grass for cutting. The 717A model has a 19-hp, vertical air-cooled Kawasaki gas engine with a 48-in. 7-IRON deck. The 727A model is powered by a 23-hp, vertical air-cooled Kawasaki and mows with a 54-in. deck.

Circle 203 on reader service form



Q-Star Technology FlashCAM

Q-Star Technology's FlashCAM-530 system deters graffiti and vandalism. The battery-powered unit can be mounted on buildings, poles or trees. A motion-triggered device operates in total darkness to a range of 100 feet. When triggered it takes a series of 35 mm photographs while flashing a series of lights. A customizable voice message warns intruders of prosecution.

Circle 204 on reader service form



Advanced Aer Aerators

Advanced Aer's aeration products feature a new temperature sensor located in the blower vault to provide improved average oxygen readings for the entire green. Water separator and blower motor vaults have been upgraded from plastic to stainless steel for increased durability and better sealing. Its control system now features digital satellite communications between control towers on the course and a central controller.

Circle 205 on reader service form



Krogmann Flatbed Attachment

Krogmann's new Carry-all Flatbed Attachment can be used with most balebeds. The cradles feature carry and dump positions.

Circle 206 on reader service form

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Snapper Fastback with Joystick Control

The newest commercial Snapper ZTR features a joystick control, 23- or 25-hp Kohler engines, independent hydrostatic drive systems and a 7-gauge steel mower deck. The mowers come with two 6-gallon fuel tanks and a choice of 52- or 61-in. mower decks. Circle 207 on reader service form



IFH Storage/Dispensing System

IFH Group's Innovative Fluid Handling Systems Storage & Dispensing System features eight 65-gallon containers, drip pans to contain spills, self-closing faucets and timer shut-offs.

Circle 208 on reader service form

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Echo CS-305 Chain Saw

The new CS-305 Chain Saw has a 30.1cc two-stroke engine and Pro-fire ignition system. An adjustable oiler automatically lubricates the bar and chain according to engine speed. The 7.8-lb. unit is equipped with a vibration-reduction system. Circle 209 on reader service form



Midsota Grounds Keeper Series

The Grounds Keeper GF10 has a 12,000 lb. capacity and a 2,000 lb. jack. Its 6-ton hoist features a low deck height, flared 10-gauge steel sides and a dump-over gravel plate. It has a tubular steel frame and a heavy-duty 3/16 steel floor. Circle 210 on reader service form



EarthQuake Rotary Turf Decompactor

The EarthQuake model T155 has a 62 in. working width for four-wheel drive tractors with 35 to 50 hp. It is designed to relieve root-zone and sub-soil compaction to depths of 10 inches without causing disruption to the playing surface above.

Circle 212 on reader service form

Glenmac Box Rakes

Glenmac's new MX7 and MX8 Harley Power Box Rakes feature increased frame strength and added dual hydraulic cylinders for enhanced angling ability to accommodate the more powerful wheel and trac skid steer loaders.

Circle 211 on reader service form



Glenmac Hi-Lift/Picker

The new Harley Model 'B' Hi-Lift/Picker by Glenmac is designed for large-capacity stone removal with tight-turning maneuverability. It can pick stones, roots and trash that measure 1/2 in. to 18 in. in diameter. The Hi-Dump model lifts to 8 ft. with a 1 cu. yd. box. The Side Delivery model elevates to 10 ft.

Circle 213 on reader service form



Vanguard Commercial Power

The new Briggs & Stratton air-cooled Vanguard 35HP is a V-twin engine with OHV technology. Steel-backed aluminum bearings, a cast-iron sleeve and industrial-grade solenoid shift starter motor provide durability. A 5-in. centrifugal multi-stage industrial air cleaner protects the engine from dust and dirt.

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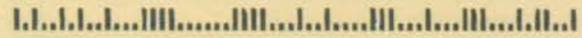


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Designer Golf Company Signs

Designer Golf's new weather-resistant stainless steel signs do not corrode, pit, patina or rust and can be cut to any shape or size. Graphics and text, transferred to the metal through a proprietary process, eliminate limitations in detail.

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Reelcraft DGM Series Syringing System

The DGM Syringing System is installed underground in a high-density polyethylene vault. Designed to be located next to greens, it features a 6-in. diameter cover plate for access to 75 feet of 3/4 inch hose or 100-feet of 5/8-inch hose.

Circle 217 on reader service form



Smithco Sweep Star

Model 7-600 ground level dump and Model 7-800 high-lift dump remove aeration cores, thatch debris, grass clippings, leaves and divots from formal and semi-formal turf. The hydraulic drive has a 48-in. sweeping head fitted with 4 nylon brush sections and a full-width rear roller.

Circle 218 on reader service form



Tru-Turf Greens Roller

The GR11000 Golf Greens Roller is a sideways moving roller with an 5.5 HP, 4-stroke Honda engine, coupled to an Eaton 11 Hydrostatic Transmission. The GR7000 has an Eaton 7 Hydrostatic Transmission and a single drive chain.

Circle 221 on reader service form.



Rain Bird EAGLE Rotor Series

The EAGLE 900 and 950 rotors handle pressure from 60 to 100 psi and are available in electric, hydraulic and Stopmatic models. The 900 unit has a radius of 63 to 91 feet. The 950 unit has a radius of 70 to 92 feet. The nozzle pop-up height for both is 3.25 in.

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Proforma Blue Label/Gold Label

The new Proforma Blue Label, Turf and Soil Penetrant, reduces the effects of localized dry spots while reducing watering requirements. Proforma Gold Label is formulated for long-term use by altering water droplet properties and enhancing the soil moisture content.

Circle 219 on reader service form



Bobcat Toolcat 5600

Bobcat's Toolcat 5600 functions as a loader, pickup truck and attachment carrier. It comes with all-wheel steering, four-wheel drive and a wide assortment of attachments. It has a rated operating capacity of 1,500 lbs., a cargo capacity of 2,000 lbs. and a 4,000-lb. towing capacity. Top travel speed is 18 mph.

Circle 220 on reader service form





Shindaiwa Trimmer

The T2500 and the T2500X trimmers from Shindaiwa are designed for quick throttle response and better torque under load. The T2500X comes with a barrier bar, debris shield, blade holder and shoulder strap. Both models meet 2005 EPA standards.
Circle 222 on reader service form

All Pro Putting Greens

All Pro Greens are made with ultra-violet-treated polypropylene fiber to withstand weather. The turf is filled with top dressing, such as Black Beauty coal slag, to control speed.

Circle 223 on reader service form



Pennington Synthetic Golf Surfaces

The Pennington Synthetic Golf Surface is designed to perform like bentgrass or Bermuda grass on tees and greens. The speed of the sand-filled surface can be adjusted by bending or straightening the fibers of the surface.

Circle 225 on reader service form



Southern Green Soil Reliever

The Model 54 Soil Reliever attaches to small tractors and aerifies with solid or coring tines. Lighter construction allows for faster deep-tine aeration. The unit weighs 928 lbs., has a working width of 54 in. and an adjustable working depth of 1 to 10 in.
Circle 224 on reader service form

UltraTech Containment Sump

The new Ultra-550 Containment Sump captures spills and leaks from 500- and 550-gallon fuel and oil tanks. An optional Ultra-SelfBailer is available for outdoor containment. All-polyethylene construction prevents corrosion and rust and a 650-gallon capacity meets Stormwater, SPCC and EPA containment regulations.

Circle 226 on reader service form



Ferris ProCut 20

The Ferris ProCut 20 offers two deck sizes and either a 20-hp Briggs Vanguard V-Twin engine or a 23-hp Kohler V-Twin. Features include an electric deck lift, oversized fender for operator foot protection, roller chain steering with bearings at the tail wheel and a six-gallon fuel tank with an extra large filler neck.

Circle 227 on reader service form



Polaris Professional Series Pump

The Polaris P305 Professional Series Pump is a lightweight, compact unit featuring self-priming pump and ceramic carbon seals. Designed for flood control and irrigation, its maximum delivery volume is 264 GPM.

Circle 228 on reader service form



Backhoe Lock

Equipment Lock's Backhoe Lock fits all backhoes and many rollers, articulating loaders and other equipment to deter theft.

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