

The Future Looks Bright for Japan's Kashima Stadium



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The Kashima soccer stadium of Ibaraki Prefecture is one of the largest athletic sports fields in the Northeastern region of Japan. Located in Kashima City, this stadium is home to the Japanese (J-League) professional soccer team, the Kashima Antlers. It holds a capacity crowd of over 40,000, and boasts a beautifully sleek architecture.

The Antlers and Kashima Stadium have represented the J-League since its inception in 1993. As the J-League's most successful team, the Antlers have recorded numerous historic victories in the stadium, and provided fans with countless thrilling moments. Their third straight championship in 2009 solidified the Antlers in the Japanese football record books as the only team to three-peat in league history.

A mainstay for avid J-League soccer fans, Kashima stadium regularly hosts Kashima Antler matches as well as numerous Asian Champions League games. While the stadium was well known in Japan since it was constructed in the early 1990s, it gained worldwide notoriety following the 2001 FIFA Confederations Cup and 2002 World Cup. As a World Cup venue, the Kashima stadium was elevated to an elite status among stadiums. Because of this global exposure, millions of viewers worldwide were able to enjoy the beauty of not only the games being played, but also the field itself.

Among J-League stadiums, the Kashima Stadium was the first to introduce a modern irrigation system. In order to make sure the Kashima field always plays at an elite

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World Cup level, field officials felt the need to upgrade their system to the best available products. The company they selected to keep the field's turf healthy and green was Globen Co., Ltd.

After thoroughly reviewing the needs of the stadium and the design of the field, Globen realized that the Kashima field was simply too large for the products that were in use at the time. As an advanced solution, Globen suggested Hunter Industries' I-90 long distance rotors. The Hunter I-90 models boast a radius of up to 31 meters and were designed to meet the specific needs of large-turf areas such as sports fields, parks, and public areas. With eight color-coded nozzle options, a heavy-duty gear-drive, a water-activated riser seal, and a “jar-top” body cap that allows quick access to the filter screen, the I-90 has proven to

be an efficient and highly durable long distance watering solution at countless sites around the world.

In addition, Globen coupled the installation of the I-90 rotors with Turf Cup Kits, which accommodate a plug of living turf on top of the riser, so the sprinkler is out of sight to both fans and players when retracted. Turf Cup Kits also help improve field safety by greatly reducing the chance that a player will ever come into contact with a rotor. Even stadium officials who know the field layout inside and out admit that it is difficult to view the sprinkler locations due to the quality coverage the Turf Cup Kits provide.

Using a specification plan that included 12 adjustable-arc and eight full-circle I-90s, the field experienced maximum health and ease-of-maintenance after the switch.

Sadly, just when the field was looking and playing its best, the Great East Japan Earthquake hit Kashima Stadium with full force in March 2011. The damage caused by the quake resulted in the suspension of games and events at the stadium for several months.

Thanks to the tireless efforts and perseverance of local officials and many dedicated workers, Kashima stadium has since been repaired and restored to its former condition, and is hosting J-League soccer matches without issue. More importantly the landmark stadium serves as a beacon of hope and encouragement for the thousands of earthquake and tsunami victims rebuilding their lives in Japan.



Images courtesy of Globen.



Hunter®



Get Smart: Group Water-Efficient Products for Maximum Water Savings



When specifying products for an irrigation system, many factors must be taken into consideration. With the array of products and manufacturers on the market, this job has never been more complicated. However, the goal of the job is still the same: to create an irrigation system within a budget that creates the healthiest possible landscape while using as little resources as possible.

In order to create the optimal system with ease, Hunter Industries has created a series of water-saving products that work together seamlessly to create an easy-to-design, extremely efficient system. Water-saving products used together help to conserve water, save money, and also give great results.

For example, the X-Core or I-Core controller paired with the Solar Sync Weather Sensor can ensure vegetation is watered the correct amount based on locally measured weather data. The Eco-Rotator, which is used in place of common spray nozzles, uses water extremely efficiently, and applies water at a slow rate—much like soft, healthy rainfall. The low rate also ensures that more of the water applied gets to the roots of the plants and turf as its application rate more closely matches the soil intake rate.

The right amount of water is applied because of the Solar Sync, and does so as efficiently as possible because of Eco-Rotator. If high system pressures are hindering efficiency, the Accu-Sync can be used with any Hunter valve to regulate the pressure to the amount appropriate for the system. Proper pressures mean less wear-and-tear on components, and best-possible performance from sprinklers. To ensure there is a pressure regulation solution for every system, Accu-Sync models are available in an array of fixed and adjustable models.

The benefits of efficient watering are innumerable for the irrigation professional. When properly inserted into a system, Hunter's collection of water-saving products can decrease system-wide water use by over 30%. At the same time, since plants and turf get the right amount of water, they are significantly healthier. Therefore, the totality of the landscape not only looks better, but becomes less prone to disease or weed invasion, and more guarded from extreme weather shifts.

When the right water-efficient products are selected and properly installed on the right site, the results can make specifiers, designers, contractors, and installers look like the water geniuses we all aspire to be.

“...Hunter's collection of water-saving products can decrease system-side water use by over 30%.”



Tech Tip:

Use and Benefits of Check Valves



Pro-Spray check valve

Drain check valves are a simple and economical way to help save water and increase landscape health. Most Hunter rotors and spray heads feature check valves, and spray heads feature them as either factory or field-installed options.

Without a check valve, if there is any elevation change from the piping to a low sprinkler, the water in the pipe will drain out the lowest point or points on the system after each time that zone of sprinklers run. Depending on the size of the pipe that is in the ground, there can be a damaging amount of water that drains out with each rising and lowering of the sprinkler. The pipe then needs to be refilled for the next cycle when the system engages, and then it all drains out again. This can also cause liability issues, as a low sprinkler on a park or athletic field can create a constantly wet area around it, causing a hazard.

For larger elevation changes, like steep slopes, Hunter provides the HCV check valve that can handle elevation changes up to 9.75 meters. The in-line emitters in Hunter's Professional Landscape Dripline also feature built-in check valves, which help prevent both debris suctioning back and drainage of the lines between cycles.

Rotors featuring factory-installed check valves:
I-20, I-25, I-35, I-40, I-60, I-90

Rotors with check valve option available:
PGJ, PGP Ultra

Pro-Spray models with check valve option available:
PS Ultra, Pro-Spray, PRS30, PRS40

New Long-Range ST Rotors Water With Power and Efficiency

Hunter's new gear-driven synthetic turf rotors compliment the recently introduced ST-90 and STG-900 synthetic turf specific rotors by adding long-range capabilities that reach up to 48 meters. The ST-1600 models feature enhanced radius capabilities that are perfect for extra-wide field applications like football pitches. ST-1600 rotors are available in two configurations:

ST-1600B

This model is a 13 cm pop-up with adjustable-arc and full-circle capabilities in one rotor. All internal components of this rotor are accessible from the top without disturbing the synthetic surface. It is ideally suited for installation within Hunter's ST243642B vault, or in the natural turf that is sometimes adjacent to the synthetic field to be irrigated.

ST-1600BR

This model is a compact and unobtrusive riser-mounted rotor with adjustable-arc and full-circle capabilities. The ST-1600BR is perfect for those installations where it is preferable to keep all irrigation piping and equipment away from the synthetic surface. The riser-mounted configuration also allows existing synthetic sports fields to be retrofitted for irrigation without disturbing the playing surface. This model is also great for pastures, horse arenas and general dust control areas replacing vertical impact style sprinklers with this quiet and smooth operating rotor.



ST-1600BR (left) ST-1600B (right)

Hunter I-90 Rotors Get Efficient Enhancements

Pushing a radius of up to 31 meters, the I-90 has a well-established reputation as an efficient and reliable irrigation solution for wide-open turf areas, as well as perimeter watering of athletic fields and horse arenas. The rotor is also easy to service, with a "jar-top" body cap that allows quick access to the filter screen and check valve with no extra pieces, parts, or tools required. To ensure the I-90 remains a global leader in its category, models have recently been updated to include the latest emerging technology.

New I-90 enhancements include:

- New #25 nozzle with shorter 23 m radius capabilities
- New #73 nozzle with longer range 31 m radius capabilities
- New patent-pending enhanced FlushPort feature provides cleansing of upper riser with every cycle

These changes are running enhancements, so all I-90 model numbers will remain the same. I-90s including these new features are currently shipping, and early field results have been nothing but positive.



New Nozzle Part Numbers

| | | |
|--------|-----|----------------------------|
| 460011 | #25 | nozzle, lt blue, bag of 25 |
| 460012 | #73 | nozzle, orange, bag of 25 |

New 35 Series Golf Rotors Feature Quick-Set 360 Technology

Hunter Industries has a long-standing history of making the most efficient, reliable rotors in the world. The new additions to the Hunter line of golf course rotors are no exception. In an effort to offer course managers an expanded array of solutions, Hunter recently introduced the new G35B and G835 Series golf rotors.

Available in Block-Type, Check-O-Matic, Electric Valve-In-Head (VIH) and Decoder-In-Head (DIH) configurations, these rotors feature 5.5 to 15 meter radius capabilities, and fit into our current B Series and G800 Series TTS rotor bodies. They are designed to be placed in unique locations around the course that require a short-radius throw

such as remote tee boxes. Each rotor is supplied with a complete set of efficient and easy-to-install nozzles.

One of the most versatile features these rotors boast is Hunter's Quick-Set 360 technology. This new enhanced feature provides quick and easy setting of the 50°–359° adjustable arc and a non-reversing full-circle in one rotor.

The resulting benefit is a rotor that can be set to any available arc setting in just a few seconds and adjustments can be made in any phase of maintenance—with riser in hand, installed with no water flowing or, while the rotor is in operation. It should also be noted that Quick-Set 360 is now available on all G75B and G875 Series rotors as well.



G835 (left) G35B (right)

New Stainless Steel Controller Enclosures

Built specifically to protect ACC and I-Core controllers from the harshest outdoor environments, Hunter's new passivated type 304 stainless steel enclosures exemplify durability.

The dimensions and approvals of these heavy-duty 16 AWG enclosures are the same as the standard gray metal enclosures. For pricing and model number information, see the chart to the right.

| Model | Description | List Price |
|-----------|---|------------|
| ACC1200SS | 12 st. SS wall mount | \$1,850.00 |
| ACC99DSS | 99 st. SS dec. wall | 2,750.00 |
| IC600SS | 6 st. SS wall mount | 1,399.00 |
| PEDSS | Stainless pedestal for either ACC or I-Core stainless wall mounts | 899.00 |



Hunter Training Update

As many international customers know, Hunter's no-cost, comprehensive training site, [training.hunterindustries.com](http://www.training.hunterindustries.com) is a tremendously valuable tool for irrigation professionals. The site provides courses, tutorials, and other educational resources that let business owners and employees work and learn at their own pace. It even features discussion forums and support features to ensure you're getting the most out of courses.

Some of the most recent classes include:

- ACC Fundamentals
- ACC Decoders Fundamentals
- X-Core Fundamentals
- IMMS-ET



▶ To register for courses, log on to <http://www.training.hunterindustries.com> and click the Sign Me Up button. Should you need help with any part of your training experience, Hunter Training Support is only an email away at training@hunterindustries.com.

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Looking for the best way to stay connected to everything that's happening in and around Hunter Industries? Find us today on Facebook at facebook.com/hunterindustries.

Our Facebook page is filled with all the latest updates and company info you need to know as an irrigation professional. It's also the fastest way to stay informed on all the product information and updates that can help your business immediately improve. It's a great way to connect with your peers around the world, and start a conversation or two about our great profession.

▶ For better industry insights, and immediate updates no matter where you are in the world, get online and connect with Hunter on Facebook today!