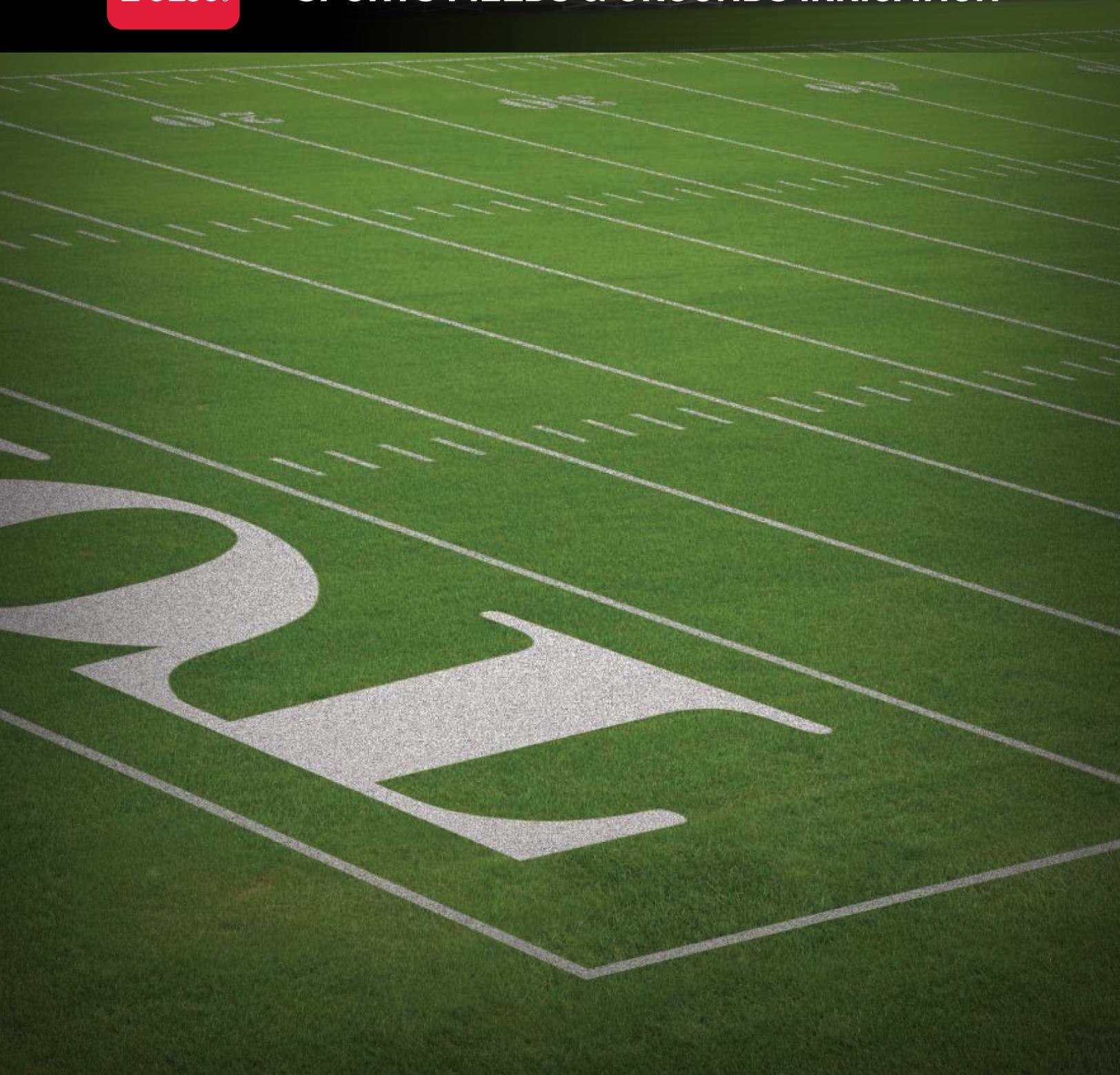


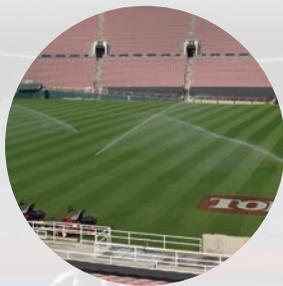


SPORTS FIELDS & GROUNDS IRRIGATION



Your Fields Have Unique Needs. Toro Can Help You Meet Them.

Whether you manage a professional sports field that hosts some of the world's elite athletes, or the baseball diamond at the local park, Toro can help keep your field looking its best with a wide range of class-leading irrigation solutions engineered with professional groundskeepers, contractors, and designers in mind. Every field, regardless of size or composition, presents its own unique challenges.



Natural Turf Fields Require a Balance of Attention to Detail and Consistent Care to Ensure:

Turf Health – Maintaining healthy turf that is ready to take center stage on game day in high-use, short recovery window environments.

Playability – Safe playing surfaces that ensure player safety, limit potential liability, and help athletes perform at their best.

Water Use – Keeping the field in excellent condition while using water efficiently and keeping related costs down.



Irrigation Is An Important Aspect of Preserving the Quality and Playability of Your Synthetic Turf Field, As It Supports:

Wash Down – Helps remove and wash away debris, biological matter, and various pathogens to provide a more appealing playing or leisure surface.

Cool Down – Significantly reduces surface temperatures and helps to preserve player safety, especially during midday activities and the summer months.

Preservation – Helps to maintain and compact sand and infill materials, thereby ensuring the surface performs as intended.

Toro wants to help groundskeepers and field managers keep fields at their best. That is why Toro is committed to developing innovative irrigation products that water more accurately, more efficiently, more dependably, and more affordably.

Further, Toro provides a complete line of sports field maintenance products that ranges from mowers and sprayers, to aerators and utility vehicles. Whatever your need, Toro has a solution. Solutions designed to help all sports fields be healthier, play safer, and look their best.

IRRIGATION SOLUTIONS

- Control & Turf Monitoring
- Natural & Synthetic Turf Sprinklers
- Valves & Up-stream Fittings

SERVICE & SUPPORT

- Controller Repair
- 24/7 Technical Support
- Product Training
- Field Service

Toro's Sports Fields and Grounds sprinkler offerings cover the spectrum of what is required to keep your turf fit for purpose and ready for center stage on gameday, whether it be natural or synthetic.



TS170 SERIES ROTORS

Ideal for the washing down and cooling of Synthetic Turf fields, and capable of radii that allow it to be installed along the perimeter of the field – away from the playing surface.



TS120 SERIES IMPACT SPRINKLERS

Capable of meeting the requirements of both Synthetic and Natural Turf fields with low maintenance requirements and VIH control.



690 SERIES ROTORS

Tried and true, one of the original long-range rotors capable of meeting the rigors of supporting sports fields of every size and class.



TS90 SERIES ROTORS

Featuring a Constant-Velocity drive, back nozzle, and patented TruJectory adjustment, this rotor can be easily tailored to the specific needs of your field.



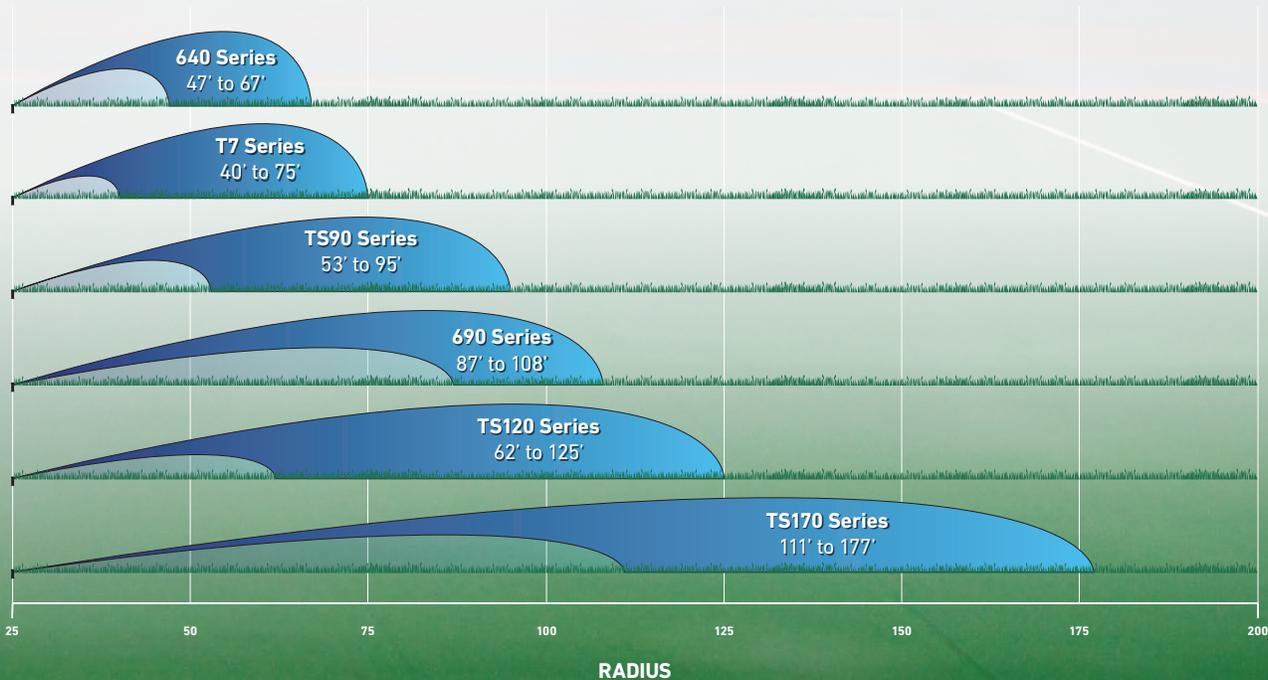
T7 SERIES ROTORS

Proven to be durable and dependable, as evidenced in its use across numerous baseball and football fields at both the professional and collegiate levels.



640 SERIES ROTORS

With installs as far back as 30 years, there is little that can keep this rotor from meeting your expectations cycle after cycle, year after year.



DID YOU KNOW? With a radius capability of 177 feet, one TS170 Series sprinkler is capable of covering the entire width of a traditional football field. Only six TS170 sprinklers are needed to cool and wash down an entire field.

According to the Synthetic Turf Council, there are an estimated 12,000 to 13,000 active synthetic turf sports fields in the United States, with another 1,200 to 1,500 new installations each year.*

According to a 2015 study conducted by Penn State's Center for Sports Surface Research, irrigating Synthetic Turf can reduce the surface temperature by as much as 20°F. Surface temperatures as high as 160°F have been recorded.**

*Source: Synthetic Turf Council (www.syntheticurfCouncil.org)

**Source: Penn State's Center for Sports Surface Research. June 2015. *The Effect of Irrigation on Synthetic Turf Characteristics: Surface Temperature, Soccer Ball Roll, and Traction – Progress Report.*



TS90 Series Rotors

Model Selection Guide



	TS170 Series	TS120 Series	690 Series	TS90 Series	T7 Series	640 Series
Max Radius	177 ft.	125 ft.	108 ft.	95 ft.	75 ft.	67 ft.
Type(s)	Electric VIH Block Style	Electric VIH Block Style	Electric VIH Block Style	Block Style	Block Style	Hydraulic VIH Block Style
Cover options	Standard Synthetic TurfCup™	Standard Synthetic Cover Natural TurfCup	Standard	Standard Natural TurfCup	Standard	Standard
Inlet	2" NPT	1 ½" NPT	1 ½" NPT	1" NPT	1" NPT	1" NPT
Pop-up Height (Grade to nozzle opening)	3"	4"	2.2"	4"	5"	3.3"
Drive Mechanism	Piston Drive	Impact	Gear Drive	Gear Drive	Gear Drive	Gear Drive
Arc	30-360 Degrees	30-360 Degrees	60-360 Degrees	40-360 Degrees	45-360 Degrees	45-360 Degrees
Trajectory	25°	22°	25°	7° to 30° (Adjustable)	25°	27°



T7 Series Rotors

Irrigation Control & Monitoring Systems

Well-managed irrigation starts with a great control system. Whether you are caring for one single field, or multiple fields spread across a large campus, Toro offers a control system that can be tailored to your preferences, and the needs of you and your team.



EVOLUTION® SERIES CONTROLLER

The EVOLUTION Series controller is modularly expandable from 4 to 16 stations and provides intuitive programming; a wide selection of wireless, water-saving accessories; and features firmware that is field upgradeable.

ADD-ONS & ACCESSORIES

- ✓ Smart Connect® Wireless Receiver
- ✓ Wireless ET Weather Sensor
- ✓ Wireless Precision™ Soil Sensor
- ✓ SMRT Logic™ Internet Gateway and SMRTscape™ mobile app and website control



SENTINEL® COMPACT CONTROL

Sentinel Compact Control satellites are built to fit the needs of smaller sites. Available in 9, 12, and 18 station models, everything to program the system can be done at the controller, thereby minimizing expense without sacrificing capabilities.

ADD-ONS & ACCESSORIES

- ✓ Wired RainSensor™
- ✓ Wireless RainSensor™



SENTINEL® CENTRAL CONTROL

A powerful central control system that stands guard over your site. Sentinel Water Management Software allows users to control daily irrigation operations and scheduling from a powerful yet easy-to-use platform.

ADD-ONS & ACCESSORIES

- ✓ Turf Guard® Wireless Soil Monitoring System
- ✓ Pro Series™ Soil Sensor
- ✓ TFS Series Flow Sensors
- ✓ Sentinel® Handheld Remote
- ✓ Web-based Precision™ ET
- ✓ On-Site Weather Station



TS120 Series Impact Sprinklers

Valves, Sprays, & Swing Joints

Toro's irrigation product offerings for SF&G settings extend into high-efficiency spray nozzles; pressure-regulated 570Z spray heads; inline low friction loss valves; and high-strength PVC swing joints.



HIGH FLOW VALVES

Low Friction Loss valves help keep sprinklers running at optimal performance.

- ✓ Toro 220 Brass Series and high-strength P220 Series valves are suitable for most any SF&G system configuration.
- ✓ Capable of operating pressures up to 220 psi and flows of up to 300 gpm.
- ✓ 220 and P220 valves feature top-of-bonnet flow control and are EZReg® pressure regulator compatible.



PRECISION™ SERIES NOZZLES & 570Z SPRAY HEADS

570Z pop-up spray bodies feature a zero-flush wiper seal and easy-to-ratchet stem that keep performing through frequent top dressing applications.

- ✓ 570Z pop-up spray bodies are designed to remain level and perform through frequent top dressing applications.
- ✓ Patented Precision™ Spray Nozzles use 1/3 less water while achieving the distance of throw of more conventional nozzles.
- ✓ Precision™ Rotating Nozzles feature multiple rotating streams of water that slowly apply water where wind and runoff are a concern.



STAINLESS STEEL ENCLOSURES

Stainless steel enclosures ensure straightforward and convenient access to sprinklers, valves, and quick couplers. Custom lids for TS170 and TS120 models provide superior sprinkler stability and field aesthetics.



DUCTILE IRON & PVC SWING JOINTS

Swing joints provide the flexibility to align the sprinkler to a level position and help ensure the optimum flow of water to the sprinkler through minimizing friction loss.

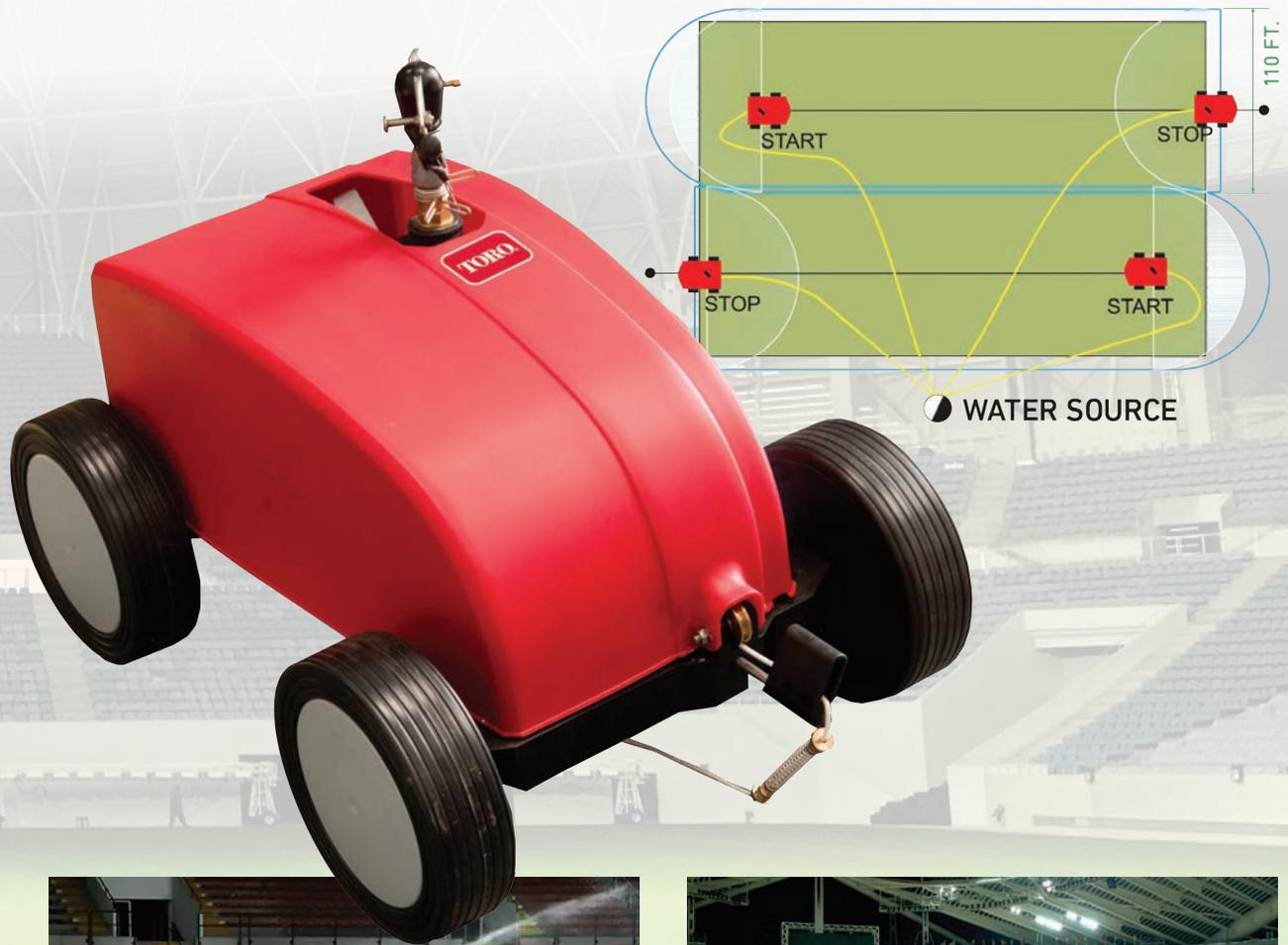
P2 Series Sprinklers

The lightweight and versatile P2 Series Sprinklers are capable of achieving radii of up to 226 feet, making them well suited for a wide range of applications, including the cooling and washdown of synthetic turf, maintenance of equine facilities and racetracks, and dust suppression. The sprinkler's integrated handle provides portability where permanent installations are not necessary, and the adjustable rotation speed presents ultimate flexibility. The fully-enclosed, low maintenance piston drive keeps the P2 sprinkler operating across a wide range of operating pressures and conditions.



Toro RollcarT™

The Toro RollcarT offers a cost-effective, easy-to-setup solution for irrigating sports fields, golf course roughs, and other large, open turf areas where no underground irrigation system is installed. The RollcarT is hydraulically-powered and travels the length of the field while applying consistent irrigation through the integrated long radius impact sprinkler. The RollcarT travels along its integrated retractable hose reel system, and automatically shuts off the flow of water once it has reached the end of the line.





**Toro is always there to help you care for your landscapes the way you want,
when you want, better than anyone else.**



www.toro.com

5825 Jasmine Street
Riverside, CA 92504-1183

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