

**TORO®**

Count on it.

# TR50XT Series

## Rotors

*The Toro® TR50XT Series Rotor is the ultimate sprinkler upgrade!* No ¾" rotor can match the feature set of TruArc™ adjustments, Smart Arc™ memory return in addition to Toro's X-Flow® and Trujectory™ technologies. The unique X-Flow shut-off device is built right in to the riser for individual sprinkler shutoff allowing for dry nozzle changes and easy maintenance. Exclusive Trujectory adjustment makes fine tuning of nozzles from 5-25 degrees simple, especially during installation when avoiding low hanging branches can be critical. Covering a radius range from 28'- 48', the TR50XT Series is ideal for residential and commercial applications. Simple, efficient and innovative.

### Features & Benefits

#### X-Flow® Shutoff Device

Allows one sprinkler to be shut-off while all the others on the same line are still running.

#### Exclusive Trujectory™ Adjustment

Allows fine-tuning of nozzle spray trajectory – make adjustments from 5° to 25° to compensate for wind, low-hanging branches or throwing water from the top of slopes.

#### TruArc™ for Easy Arc Set

Eliminates "palming" of a sprinkler to check the final arc setting—visual arc set from arrow on cap to arrow on riser.

#### Smart Arc™ Memory

Safely returns sprinkler to previously set arc if vandalized.

#### Standard Reversible Check Valve

Prevents low-head drainage, keeping laterals charged with water (maintains up to 8' elevation change).

#### Below Grade Installation

Allows for maximum safety helping to eliminate the potential for tripping accidents and damage caused by mowers.

### Water Management Highlight



#### Trujectory: Accurate Arc Adjustment without Switching the Nozzle Set

With Toro's Trujectory technology you can adjust anywhere between 5 and 25 degrees without having to change out the nozzle. The easy-to-use design combines the fine-tuning capability that you really want with what your installation requires. Overthrows onto hardscapes are eliminated and the integrity of the stream remains intact since there is no need for a diffuser screw.



Effluent  
Options  
Available



Check  
Valve  
Options  
Available



SST Riser  
Options  
Available



# TR50XT Series



## Specifications

Model	Description
• TR50XTP	5" (127mm) Lawn pop-up
• TR50XTPE	5" (127mm) Lawn pop-up, Effluent
• TR50XTS	Shrub
• TR50XTSE	Shrub, Effluent
• TR50XTHP	12" (300mm) High-pop
• TR50XTHPE	12" (300mm) High-pop, Effluent
• TR50XTPSS	5" (127mm) Lawn pop-up w/Stainless Steel Riser
• TR50XTPSS E	5" (127mm) Lawn pop-up w/Stainless Steel Riser, Effluent

## Dimensions

- Body Diameter:
  - Lawn Pop-up: 2 3/8" (59mm)
  - High-pop: 2 1/2" (64mm)
- Cap Diameter: 3" (75mm)
- Height:
  - Lawn Pop-up: 8" (200mm)
  - High-Pop: 15 7/8" (403mm)

## Operating Specifications

- Radius: 28-48' (8,5-14,6m)
- Flow Rate: 1.0– 9.80 GPM (3,8-37,1 LPM)
- Operating Pressure Range: 30-70 psi (2,1-4,8 Bar)
- Trajectory: Adjustable from 5°-25°
- Pop-up to nozzle: 4 3/4" (120mm)
- Inlet: 3/4" (20mm) female-threaded
  - 1/2" to 3/4" (13-20mm) female-threaded on shrub
- 1/2" (13mm) below grade installation (except shrub model)

## Additional Features

- Cluster, water-lubricated, gear-drive design
- Standard rubber cover
- Large filter screen to prevent clogging
- Factory installed with a #3.0 nozzle
- Left arc indicator on cap (arrow) and on body (hash mark), and right trip indicator on black adjusting band
- Dry mode pull-up slot for convenience
- Arc adjustment from 30°-360°
- Continuous, unidirectional rotation provides uniform water coverage when set at full circle
- Color-coded nozzle tree with 8 interchangeable nozzles
- Stainless steel radius adjustment screw allows up to 25% radius reduction

## Warranty

- Five years



High: Accurate Arc Adjustment



Low: Accurate Arc Adjustment

## TR50XT Performance Data

Nozzle Size	PSI	Flow	25°				15°			5°		
			Radius	Precip. Rate*		Radius	Precip. Rate*		Radius	Precip. Rate*		
				▲	■		▲	■		▲	■	
1.0 Yellow	30	1.0	33	0.10	0.09	31	0.12	0.10	28	0.28	0.24	
	40	1.1	34	0.11	0.09	31	0.13	0.11	29	0.30	0.26	
	50	1.3	35	0.12	0.10	32	0.14	0.12	30	0.32	0.28	
	60	1.4	36	0.12	0.10	32	0.15	0.13	31	0.32	0.28	
	70	1.5	37	0.12	0.11	33	0.15	0.13	31	0.34	0.30	
1.5 Orange	30	1.1	34	0.11	0.09	32	0.12	0.10	30	0.28	0.24	
	40	1.4	35	0.13	0.11	32	0.15	0.13	31	0.32	0.28	
	50	1.6	36	0.14	0.12	33	0.16	0.14	32	0.34	0.30	
	60	1.7	37	0.14	0.12	33	0.17	0.15	32	0.36	0.32	
	70	1.9	38	0.15	0.13	34	0.18	0.16	33	0.38	0.34	
2.0 Red	30	1.6	36	0.14	0.12	34	0.15	0.13	32	0.34	0.30	
	40	1.9	37	0.15	0.13	34	0.18	0.16	33	0.38	0.34	
	50	2.2	38	0.17	0.15	35	0.20	0.17	34	0.42	0.36	
	60	2.4	39	0.18	0.15	36	0.21	0.18	35	0.44	0.38	
	70	2.6	40	0.18	0.16	37	0.21	0.18	36	0.44	0.38	
3.0* Black	30	2.3	37	0.19	0.16	35	0.21	0.18	33	0.46	0.40	
	40	2.7	38	0.21	0.18	36	0.23	0.20	34	0.52	0.44	
	50	3.1	39	0.23	0.20	37	0.25	0.22	35	0.56	0.48	
	60	3.4	40	0.24	0.20	38	0.26	0.23	36	0.58	0.50	
	70	3.6	42	0.23	0.20	39	0.26	0.23	38	0.56	0.48	
4.5 Blue	30	3.4	38	0.26	0.23	35	0.31	0.27	33	0.70	0.60	
	40	4.0	39	0.29	0.25	36	0.34	0.30	34	0.76	0.66	
	50	4.6	40	0.32	0.28	38	0.35	0.31	36	0.78	0.68	
	60	5.1	41	0.34	0.29	39	0.37	0.32	37	0.82	0.72	
	70	5.6	43	0.34	0.29	40	0.39	0.34	39	0.82	0.70	
6.0 Green	30	4.4	39	0.32	0.28	36	0.38	0.33	33	0.90	0.78	
	40	5.1	40	0.35	0.31	37	0.41	0.36	34	0.98	0.84	
	50	5.8	41	0.38	0.33	39	0.42	0.37	36	1.00	0.86	
	60	6.5	42	0.41	0.35	40	0.45	0.39	38	1.00	0.86	
	70	7.1	44	0.41	0.35	42	0.45	0.39	40	0.49	0.86	
7.5 Brown	30	5.2	40	0.36	0.31	36	0.45	0.39	33	1.06	0.92	
	40	6.2	41	0.41	0.35	38	0.48	0.41	35	1.12	0.98	
	50	7.1	43	0.43	0.37	40	0.49	0.43	37	1.16	1.00	
	60	7.8	44	0.45	0.39	41	0.52	0.45	39	1.14	0.98	
	70	8.5	45	0.47	0.40	43	0.51	0.44	41	1.12	0.98	
9.0 Gray	30	6.1	40	0.42	0.37	36	0.52	0.45	33	1.24	1.08	
	40	7.1	42	0.45	0.39	39	0.52	0.45	36	1.22	1.06	
	50	8.0	45	0.44	0.38	41	0.53	0.46	38	1.24	1.06	
	60	8.9	46	0.47	0.40	42	0.56	0.49	40	1.24	1.08	
	70	9.8	48	0.47	0.41	44	0.56	0.49	42	1.24	1.06	

■ Shaded areas represent optimum operating pressure for that nozzle size.

\*Pre-installed nozzle.

Data based on 180°.

## Specifying Information—TR50XT

TR50XT XXX-XX-E				
Description	Body	Nozzle		Optional
TR50XT	XXX	XX		E
TR50XT—TR50XT Series Rotor	P—Lawn Pop-up S—Shrub HP—High-pop PSS—Stainless Steel Riser	10—1.0 15—1.5 20—2.0 30—3.0	45—4.5 60—6.0 75—7.5 90—9.0	E—Effluent
Example: A TR50XT Series sprinkler with High-pop and a 6.0 nozzle, would be specified as: <b>TR50XT-HP-60</b>				

