

TORO

THE WATERBIRD® - AUSTRALIA'S OWN

Designed, engineered and fully manufactured in Australia.

Our range of custom made agricultural mini-sprinklers is the result of continuous consultation between engineers, growers and dealers to minimise water consumption whilst increasing yield.



Waterbird® Classic



Features

- Engineered to provide improved water application for under tree and vine installations
- Aerofoil shaped frame minimises dry spots
- Snap Fit bearing provides easy field disassembly
- Anti-insect/dust proof spinner retracts to protect nozzle when not in operation
- Improved distribution characteristics with large droplet size being less susceptible to wind effects
- Low angle of throw for maximising under foliage penetration
- Proven robust frame design for superior strength and long field life
- Available with snap-off deflector for irrigating young trees
- Eight colour coded flow rates from 36 L/h to 304 L/h
- Maximum diameter of throw in excess of 10 m
- Fully assembled models available with pre-installed tube and stake

Specifications

- **Inlet:** 10 mm MBSP/NPT
- **Recommended Pressure Range:** 100 – 200 kPa
- **Materials:** Frame, bearing and nozzle: Acetal
Spinner: Nylon

Application



Waterbird® PC



Features

- Unique patented pressure compensating diaphragm assembly for improved performance
- Pressure compensating mechanism provides uniform flow on undulating terrain
- Anti-insect/dust proof spinner retracts to protect nozzle when not in operation
- A two stage spinner provides two diameters of throw. The smallest diameter is for younger trees, and the deflector is simply removed for developed trees
- Aerofoil shaped frame improves sprinkler distribution pattern
- Large droplet size is less susceptible to wind effects
- Snap Fit bearing for easy infield maintenance
- Low angle of throw maximises under foliage penetration
- Eight colour coded flow rates from 37 L/h to 152 L/h
- Available in both standard and deflector tab spinners
- Fully assembled models available with pre-installed tube and stake

Specifications

- **Inlet:** 10 mm MBSP/NPT
- **Compensating Pressure Range:** 150 – 350 kPa
- **Materials:** Frame, bearing and nozzle: Acetal
Spinner: Nylon

Application



PERFORMANCE CHART

Jet Colour Orifice Diam.	Pressure (kPa)	Diam. Std Spinner (m)	Diam. with LTD Spinner (m)	Diam Deflector TAB Spinner (m)	Diam. Deflector Plate (m)	Flow (L/h)	Stream Height* (m)
Black 1.00 mm	100	4.9				30	0.56
	150	5.5	4.0	1.0	1.4	36	0.62
	200	5.8				41	0.65
White 1.05 mm	100	6.1				44	0.56
	150	6.9	4.6	1.4	1.4	55	0.62
	200	7.3				64	0.65
Maroon 1.25 mm	100	6.8				62	0.57
	150	7.8	5.1	1.5	1.4	76	0.71
	200	8.3				89	0.90
Green 1.40 mm	100	7.3				81	0.60
	150	9.2	5.3	1.6	1.4	99	0.83
	200	10.3				115	0.90
Blue 1.65 mm	100	8.4				108	0.60
	150	9.4	6.0	1.7	1.6	134	0.80
	200	10.5				156	0.92
Grey 1.80 mm	100	8.5				125	0.60
	150	9.4	5.5	2.7	1.7	155	0.77
	200	10.8				178	0.90
Yellow 2.0 mm	100	8.3				156	0.65
	150	9.4	N/R	2.5	1.8	192	0.75
	200	10.3				221	0.85
Red 2.3 mm	100	8.8				214	0.74
	150	10.2	N/R	2.5	1.8	265	0.97
	200	10.3				304	1.05

Shaded portions indicate recommended operating pressures.
Diameters based on spinner at 250 mm above ground level.
* Measured from spinner outlet.

PERFORMANCE CHART

Jet Colour	Pressure (kPa)	Diam. Std Spinner (m)	Diam Deflector TAB Spinner (m)	Flow (L/h)	Stream Height* (m)
Black	150	5.5		35	0.39
	200	5.5	0.6	36	
	250	5.5	0.6	37	
	300	5.5	0.6	37	
	350	5.5		37	
Light Blue	150	5.5		45	0.36
	200	6.0	1.0	48	
	250	6.0	1.0	48	
	300	6.0	1.0	47	
	350	6.0		47	
White	150	6.5		54	0.43
	200	6.5	1.4	57	
	250	6.5	1.4	57	
	300	7.0	1.4	58	
	350	7.0		59	
Maroon	150	7.0		74	0.33
	200	7.5	1.6	76	
	250	8.0	1.6	77	
	300	7.5	1.6	76	
	350	7.5		75	
Green	150	8.0		96	0.50
	200	8.0	1.7	97	
	250	8.0	1.8	97	
	300	8.5	2.0	98	
	350	8.5		98	
Purple	150	8.4		120	0.35
	200	8.4	2.1	116	
	250	7.6	2.1	116	
	300	7.8	2.1	116	
	350	7.8		116	
Blue	150	9.0		135	0.50
	200	9.0	2.7	135	
	250	9.0	2.7	134	
	300	9.0	2.7	133	
	350	8.5		134	
Grey	150	9.0		151	0.39
	200	9.5	2.7	151	
	250	9.0	2.7	152	
	300	9.0	2.7	150	
	350	9.0		149	

Shaded portions indicate recommended operating pressures.
Diameters based on spinner at 250 mm above ground level.
* Measured from spinner outlet.

Waterbird® PC Olive



Features

- Designed specifically to meet the needs of olive growers
- Self cleaning, pressure compensating mechanism provides uniform flow for undulating terrain
- Anti-insect/dust proof spinner retracts to protect nozzle when not in operation
- A two stage spinner provides two diameters of throw. The smallest diameter is for younger trees, and the deflector is simply removed for developed trees
- Highly visible UV stabilised red stake provides easy identification and reduces the chance of mechanical damage
- Aerofoil shaped frame improves distribution
- Proven robust frame design for superior strength and long field life
- Advanced wedge design spinner ensures excellent start-up reliability and low maintenance
- Supplied with a deflector tab on the spinner to reduce diameter of throw

Specifications

- **Inlet:** 10 mm MBSP/NPT
- **Compensating Pressure Range:** 150 – 350 kPa
- **Materials:** Frame, bearing and nozzle: Acetal
Spinner: Nylon

Application



PERFORMANCE CHART

Jet Colour	Pressure (kPa)	Diam. Std Spinner (m)	Diam Deflector TAB Spinner (m)	Flow (L/h)	Stream Height* (m)
Black	150	5.5		35	0.39
	200	5.5	0.6	36	
	250	5.5	0.6	37	
	300	5.5	0.6	37	
	350	5.5	0.6	37	
Light Blue	150	5.5		45	0.36
	200	6.0	1.0	48	
	250	6.0	1.0	48	
	300	6.0	1.0	47	
	350	6.0	1.0	47	
White	150	6.5		54	0.43
	200	6.5	1.4	57	
	250	6.5	1.4	57	
	300	7.0	1.4	58	
	350	7.0	1.4	59	
Maroon	150	7.0		74	0.33
	200	7.5	1.6	76	
	250	8.0	1.6	77	
	300	7.5	1.6	76	
	350	7.5	1.6	75	
Green	150	8.0		96	0.50
	200	8.0	1.7	97	
	250	8.0	1.8	97	
	300	8.5	2.0	98	
	350	8.5	2.0	98	
Purple	150	8.4		120	0.35
	200	8.4	2.1	116	
	250	7.6	2.1	116	
	300	7.8	2.1	116	
	350	7.8	2.1	116	
Blue	150	9.0		135	0.50
	200	9.0	2.7	135	
	250	9.0	2.7	134	
	300	9.0	2.7	133	
	350	8.5	2.7	134	
Grey	150	9.0		151	0.39
	200	9.5	2.7	151	
	250	9.0	2.7	152	
	300	9.0	2.7	150	
	350	9.0	2.7	149	

Shaded portions indicate recommended operating pressures.
Diameters based on spinner at 250 mm above ground level.
* Measured from spinner outlet.

Waterbird® Trellis



Features

- Developed to meet the unique needs of nut tree growers
- Trellis hook allows for easy suspension from poly tubing with a cable tie
- Snap lock bearing prevents nozzle dislodging by machinery during harvest and spraying
- Anti-insect/dust proof spinner retracts to protect nozzle when not in operation
- Low angle of throw for maximising under foliage penetration
- Robust aerofoil shaped frame for improved distribution and long field life
- More efficient water application – larger droplets, low angle and less wind effect
- Fully assembled model available with pre-installed 5 mm x 0.6 mm tube and 5 mm Adaptor
- Limited Throw Deflector (LTD) models available

Specifications

- **Inlet:** 10 mm MBSP/NPT
- **Compensating Pressure Range:** 100 – 200 kPa
- **Materials:** Frame, bearing and nozzle: Acetal
Spinner: Nylon
- **Trellis Hook:** suits cable ties to 5 mm width

Application

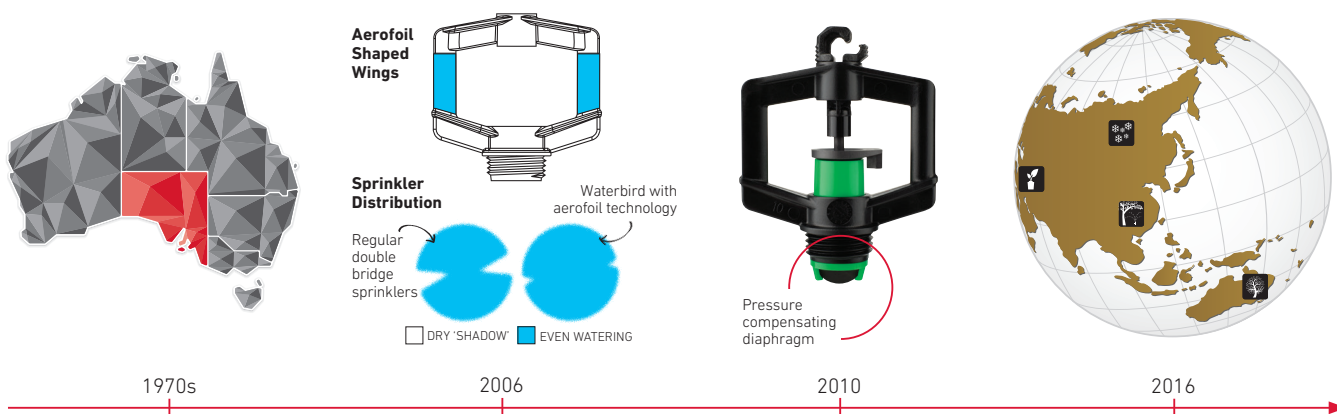


PERFORMANCE CHART

Jet Colour Orifice Diam.	Pressure (kPa)	Diam. Std Spinner (m)	Diam Deflector LTD Spinner (m)	Diam Deflector TAB Spinner (m)	Flow (L/h)	Stream Height* (m)
White 1.05 mm	100	6.1			43	0.56
	150	6.9	4.6	1.0	53	0.62
	200	7.3			61	0.65
Maroon 1.25 mm	100	6.8			60	0.57
	150	7.8	5.1	1.5	74	0.71
	200	8.3			85	0.90
Green 1.40 mm	100	7.3			75	0.60
	150	9.2	5.3	1.7	92	0.83
	200	10.3			106	0.90

Shaded portions indicate recommended operating pressures.
Diameters based on spinner at 250 mm above ground level.
* Measured from spinner outlet.

The Waterbird® Story



The Waterbird range was developed in South Australia over 40 years ago as a replacement for overhead sprinklers.

Toro launched aerofoil technology, revolutionising the Waterbird sprinkler design to minimise dry spots and improve the distribution pattern.

Toro's patented pressure compensating diaphragm assembly is released providing greater stream control, improved uniformity over wide operating pressures and increased radius.

Today, our range continues to evolve to meet the changing needs of growers in Australia and over 50 countries worldwide.

Accessories, sprinkler stakes and risers

Robust double frame

Colour coded nozzle for various flow rates

Threaded configuration for easy dismantling

Range of horizontal, vertical and 45° angle inlet stakes to suit your application

Easy snap fit bearing

Optional snap off deflector on spinner

Fittings for direct attachment to lateral lines

Available with 5 mm or 10 mm tube attached for easy placement (note 45° inlet stake only available with 10 mm offtake tube)

Toro has a comprehensive range of Mini Sprinkler Stakes and accessories to suit a variety of applications.



WBS1045 (BLACK)
Waterbird Stake (365 mm),
10 mm x 45° angled inlet

WBS1045WT (BLACK)
Waterbird Stake (365 mm),
10 mm x 45° angled inlet,
fitted with 0.8 m x 10 mm
tube



1014374 (BLACK)
1014376 (RED)
Waterbird Stake (360 mm),
5 mm vertical inlet

1014372 (BLACK)
Waterbird Stake (360 mm),
5 mm vertical inlet, fitted with
0.6 m x 5 mm tube



1014396(BLACK)
10143967(RED)
Stake Adaptor
10mm hose tail to
suit 1015190
(Rotoframe,
15 mm BSPF)
Accepts 20 mm
PVC cut to length



WBD180B(BLACK)
WBD180R(RED)
Deflector to suit all
Waterbirds



1014377
Mini Sprinkler
Adaptor for direct
on-tube application.
Clips onto 5 mm
round stake