

**LEADERS IN DESIGN - AUSTRALIAN MADE**

# TRAILCO<sup>®</sup>

## TP140 POLYREEL

### TRAILCO TURBINE DRIVE :-

Power developed from Flow not Pressure = Savings  
Fewer moving Parts = Low Maintenance = Savings  
Infinite range of Travel speeds = Flexibility  
No Filters or Exhaust water = Trouble-Free Operation.



*Trailco Turbine Drive*

### FEATURES:

- ❑ Extreme Versatility
- ❑ Low Labour Requirement
- ❑ Portable
- ❑ Low Acreage Losses
- ❑ Designed and Manufactured in Australia.
- ❑ Excellent Water Uniformity
- ❑ Ability to Work Around Obstructions
- ❑ All parts Galvanized or Zinc plated for Long Life
- ❑ Trailco Turbine Drive
- ❑ Lowers onto Turntable for Stability while irrigating
- ❑ Tractor powered Hydraulic Rams & Slew motor
- ❑ Simple & quick PTO Hose Purge
- ❑ Optional Computer control - Simple, easy control of Rewind Speed & Delayed Start/Shutoff
- ❑ Uses Polyethylene Pressure Hose. The TP140 uses 140mm Diameter hose and the TP125 uses 125mm Diameter hose.
- ❑ Options: (Model-Hose Length)  
TP140 - 350m TP140 - 450m TP140 - 400m TP140 - 490m  
TP125 - 350m TP125 - 450m TP125 - 400m TP125 - 500m



*Full Hydraulic controls*



*Optional Computer Control*



### TRAILCO IRRIGATION (AUST.)

ABN 35 480 117 190

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PINKENBA QLD. 4008

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SOLD AND SERVICED BY:

PERFORMANCE TABLE TRAILCO TP140 & TP125 TURBO POLYREELS																									
Sprinkle	Nozzle Diameter		Sprinkler Pressure		Output		Wetted Width		Approx. Lane Spacing	Ave. Rate of Precipitation (Full Circle)		400 METRE RUN				490 METRE RUN									
												Approx. Area/run		Gross Application		Approx. Area/run		Gross Application							
	mm	ins.	KPa	PSI	l.p.s.	GPM	m	ft.	m	ft.	mmph	p.p.h.	ha	Ac	mm	ins	mm	ins							
NELSON	21.8	0.86	482	70	7.58	100	80	262	52	170	6.0	24	2.08	5.13	14.5	0.57	28.9	1.14	2.54	6.29	11.8	0.46	23.6	0.93	
			551	80	8.11	107	83	272	54	177	6.0	24	2.16	5.33	14.9	0.59	29.8	1.17	2.64	6.52	12.2	0.48	24.3	0.96	
	24.6	0.97	482	70	9.78	129	86	281	56	183	6.8	27	2.23	5.50	17.4	0.68	34.8	1.37	2.73	6.74	14.2	0.56	28.4	1.12	
			551	80	10.38	137	89	291	58	189	6.8	27	2.31	5.70	17.8	0.70	35.6	1.40	2.82	6.98	14.6	0.57	29.1	1.15	
	SR150R	27.4	1.08	482	70	12.43	164	92	301	60	196	7.6	30	2.39	5.89	20.6	0.81	41.3	1.62	2.92	7.22	16.8	0.66	33.7	1.33
				551	80	13.27	175	94	310	61	202	7.6	30	2.46	6.07	21.4	0.84	42.8	1.68	3.01	7.44	17.5	0.69	34.9	1.37
21°	30.0	1.18	482	70	15.47	204	98	320	64	208	8.3	33	2.54	6.27	24.2	0.95	48.3	1.90	3.11	7.68	19.7	0.78	39.4	1.55	
			551	80	16.45	217	101	330	66	215	8.3	33	2.62	6.46	24.9	0.98	49.8	1.96	3.20	7.92	20.3	0.80	40.7	1.60	
	32.0	1.26	482	70	18.65	246	104	340	68	221	8.8	35	2.69	6.66	27.4	1.08	54.8	2.16	3.30	8.16	22.4	0.88	44.8	1.76	
			551	80	19.86	262	106	349	69	227	9.1	36	2.77	6.83	28.4	1.12	56.9	2.24	3.39	8.37	23.2	0.91	46.4	1.83	
	34.0	1.34	482	70	22.44	296	108	354	70	230	9.9	39	2.81	6.93	31.7	1.25	63.4	2.49	3.44	8.49	25.9	1.02	51.7	2.04	
			551	80	24.03	317	112	369	73	240	9.9	39	2.92	7.23	32.5	1.28	65.1	2.56	3.58	8.85	26.6	1.05	53.1	2.09	
35.8	1.41	482	70	26.23	346	112	369	73	240	10.6	42	2.92	7.23	35.5	1.40	71.0	2.80	3.58	8.85	29.0	1.14	58.0	2.28		
		551	80	28.13	371	117	383	76	249	10.6	42	3.04	7.50	36.7	1.44	73.4	2.89	3.72	9.19	30.0	1.18	59.9	2.36		
NELSON	32.8	1.29	551	80	18.35	242	107	351	70	228	8.3	33	2.78	6.87	26.1	1.03	52.2	2.06	3.41	8.42	21.3	0.84	42.7	1.68	
			620	90	19.56	258	110	361	72	235	8.3	33	2.86	7.07	27.1	1.07	54.2	2.13	3.50	8.66	22.1	0.87	44.2	1.74	
SR200R	37.1	1.46	551	80	24.03	317	116	380	75	247	9.1	36	3.01	7.44	31.6	1.24	63.2	2.49	3.69	9.12	25.8	1.02	51.6	2.03	
			620	90	25.55	337	120	394	78	256	9.1	36	3.12	7.72	32.4	1.28	64.8	2.55	3.82	9.45	26.5	1.04	52.9	2.08	
21°	39.6	1.56	551	80	28.13	371	122	399	79	259	9.9	39	3.16	7.81	35.2	1.39	70.5	2.77	3.87	9.57	28.8	1.13	57.5	2.26	
			620	90	30.03	396	126	413	82	268	9.9	39	3.27	8.09	36.3	1.43	72.7	2.86	4.01	9.91	29.7	1.17	59.3	2.34	
42.2	1.66	551	80	32.53	429	127	418	83	272	10.4	41	3.31	8.19	38.9	1.53	77.8	3.06	4.06	10.03	31.7	1.25	63.5	2.50		
		620	90	34.42	454	132	432	86	281	10.4	41	3.42	8.46	39.8	1.57	79.6	3.13	4.19	10.36	32.5	1.28	65.0	2.56		

NOTE: APPROXIMATE LANE SPACINGS CALCULATED USING .65 WIND FACTOR, (.65% OF THE WETTED WIDTH/SPRINKLER DIAMETER)  
 \* Sprinkler performance is based on the Manufacturers data which has been obtained under ideal test conditions and may be adversely affected by wind or other factors.  
 Trailco Irrigation makes no representation regarding droplet condition, uniformity or application rate.

**AUSTRALIAN MADE** - Designed & Manufactured in Australia

**TRAILCO TURBO DRIVE** - The Turbine Drive provides the Trailco Polyreel the Power to Rewind the hose and the Sprinkler Carrier in tough conditions.

**AUTOMATIC SPEED COMPENSATION** - The Turbine Drive is fitted with a compensating mechanism that automatically compensates for the increase in the Reel Diameter at each layer of Hose, as it winds on the Reel ensuring uniform Travel Speed and uniform watering.

**TACHOMETER** - Fitted to Turbine for ease of setting Travel Speed.

**HYDRAULIC CONTROL OF SPRINKLER GANTRY, JACK LEG, WHEEL**

**HEIGHT & TURNTABLE** - All machine functions powered by tractor hydraulics.

**AUTOMATIC SHUT-OFF** - At the end of irrigation run when the hose is completely rewound, the Sprinkler Carrier triggers the Shut-Off bar that stops the Hose Reel Turbine Drive. For maximum protection of hose and machine, this mechanism is also automatically triggered if the hose should over run the Hose Reel due to a mechanical failure while operating.

**P.T.O. HOSE REWIND** - Tractor P.T.O. Hose Reel Rewind Drive including P.T.O. Shaft for rewinding hose if required without operating Turbine Drive.

**CLUTCH** - When pulling out hose, the Turbine Drive is disengaged by means of a Dog Clutch (No Gear & Reduction Boxes turning). Saving on wear to Gears. Meaning longer operating life.

**LONGER LIFE** - All main parts, including Hose Reel and Frame, Main Chassis, Stabilising Legs, Lifting Arms & Sprinkler Carrier are Hot Dip Galvanised for maximum protection.

**SPRINKLER CARRIAGE** - The Sprinkler is mounted on a Carrier with Two Wheels + Skid to give maximum stability and excellent tracking. The track width is adjustable to suit various Row Crop Spacings.

**HOSE GUIDE** - A Hose Guide Assembly ensures correct hose rewinding on the Reel (No Crowning), as it moves through a Guide Mechanism.

**EASY TO SERVICE** - All serviceable parts are located in a convenient position for ease of maintenance and adjustments.

### OPERATION

Setting up the Trailco Polyreel is simple, and it can be set up by one man very easily with a minimum of time & effort.

The Polyreel is towed to the mainline and connected to the Hydrant by the supply Hose.

The Sprinkler Carriage is lowered to the ground & the Stabilizing legs embedded in the ground.

The Sprinkler carriage is towed out to any desired distance up to the entire length of the hose.

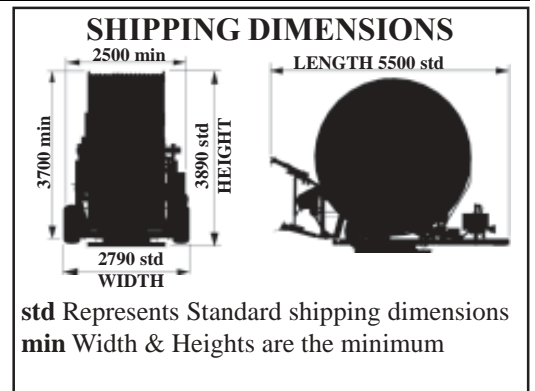
The hose can be laid around obstacles.

Travel speed is selected & the water is turned on, operating the turbine & rewinding the hose.

The sprinkler carriage stops at the end of the run.

The sprinkler carriage is then raised by the gantry, and the Hosereel & sprinkler carriage are hydraulically rotated 180°, where the procedure is repeated to irrigate the other half of the field without moving the irrigator.

On completion of the run, the hose is purged, simply & efficiently with the tractor PTO, the sprinkler carriage is raised, and the polyreel is moved to the next hydrant position for the next run.



std Represents Standard shipping dimensions  
 min Width & Heights are the minimum

**POLYETHYLENE HOSE** - Heavy Duty, Medium

Density Polyethylene Hose is extremely durable and is manufactured in Australia.

**OPTIONAL EXTRAS**

**SPRINKLER TILT COUPLING** - Designed to assist in combating the effects of wind by varying trajectory angle of sprinkler. (e.g. the higher the wind velocity the lower the trajectory required to penetrate the wind).

**COMPUTER CONTROL** - Easy, exact control of Rewind Speed & Delayed Start.

- Extra Option: Computer controlled Dump Valve enables automatic pump shutoff & delayed stop.

- Extra Option: Computer controlled Full Shutoff Valve cuts water to the irrigator.

