

Since 1981  
For Sustainable Future

**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*

**IRRICRUISER CATALOGUE**

Low Cost & High Efficiency Irrigation Systems

# DuCaR® Sprinklers *Australia*



IrriCruiser is a new generation soft hose travelling irrigator designed to provide energy efficiency and highest performance. The turbine provides high torque to pull the irrigator and hose along the steel cable even in tough condition.

Using a small tractor or ATV, you can irrigate your 150 acres of field in 7-8 days. IrriCruiser soft hose travelling irrigators can be used for irrigating wide range of crops and various application areas; from agriculture irrigation applications, turf irrigation, dust control application, to mining and industrial applications. They are manufactured in Turkiye and designed specifically for Australian tough land condition.

IrriCruiser travelling irrigators are compact and ergonomic compared to drum irrigation machines, which makes it is very economical and easy to use, move, store and transport long distances compared to drum machines. It requires very low labour requirement, even several travelling irrigators can be easily operated by one man and the labour consists mostly of driving a tractor.

In addition, the continuous movement of the sprinkler and travelling irrigator provide perfect uniformity and even water distribution.

We offer five different models of IrriCruiser soft hose travelling irrigator. which can irrigate up to 100 meters - 150 meters - 200 meters - 300 meters and 400 meters. In addition, we also have IrriCruiser Ultimate for a special order, which is able to irrigate 500-meter-long field at once.

Please contact us to discuss further about your all your agricultural irrigation equipment.

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

# IRRICRUISER LAWN MASTER TD1000-100



**DuCaR®**  
**Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

New Generation Turbine Driven  
Soft Hose Travelling Irrigator  
100m run length - 50m of 25mm hose

**DuCaR<sup>®</sup>**

**Sprinklers Australia**

## IrriCruiser Lawn Master TD1000-100 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:

DuCaR Atom 22

Hose Diameter and Length:

Diameter: 25 mm (1"); Length: 50 meters

Traveller Length:

100 meters

Nozzle Size	Sprinkler Pressure		Sprinkler Throw Range		% 85 of Throw Diameter of Sprinkler		Capacity			Linear Velocity		Total Pressure Neccessity		Turbine + Hose Friction Loss		Rainfall (mm)		Total Operation Time for travel ( hour )	
							Flow Rate												
	Bar	Psi	m	ft	m	ft	l/min	m <sup>3</sup> /hour	GPM	m/hour	ft/hour	Bar	psi	Bar	psi	mm	inch	330 ft	100 m
8 mm	2.5	36	16.5	54	28	92	63	3.8	16	19	62	4.0	58	1.5	22	6.5	0.26	5.3	5.3
	3	44	18	59	31	100	68	4.1	18	40	131	4.9	71	1.9	28	3.0	0.12	2.5	2.5
	4	58	19	62	32	106	80	4.8	21	55	180	7.0	102	3.0	44	2.4	0.10	1.8	1.8
6 mm + 4mm	3	44	17	56	29	95	57	3.4	15	39	128	5.2	75	2.2	32	2.8	0.11	2.6	2.6
	4	58	18	59	31	100	65	3.9	17	60	197	6.6	96	2.6	38	1.9	0.08	1.7	1.7
	4.5	65	18.5	61	31	103	70	4.2	18	70	230	7.7	112	3.2	46	1.7	0.07	1.4	1.4

**\*Note:** The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

# IRRICRUISER MINI TD1250-120



**DuCaR<sup>®</sup>**  
**Sprinklers** Australia

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**120m run length - 60m of 32mm hose - Auto-Stop with Water Cut-off Mechanism**

## IrriCruiser Mini TD1250-120 RAINFALL AND VELOCITY RELATIONS TABLE

**Sprinkler Type:** DuCaR Atom 22  
**Hose Diameter and Length:** Diameter: 32 mm (1 1/4"); Length: 60 meters  
**Traveller Length:** 120 meters

Nozzle Size	Sprinkler Pressure		Sprinkler Throw Range		% 85 of Throw Diameter of Sprinkler		Capacity			Linear Velocity		Total Pressure Necessity		Turbine+Hose Friction Loss		Rainfall (mm)		Total Operation Time for travel ( hour )	
							Flow Rate												
							l/min	m <sup>3</sup> /hour	GPM										
	Bar	Psi	m	ft	m	ft						Bar	psi	Bar	psi	mm	inch	396 ft	120 m
8 mm	2.5	36	16.5	54	28	92	63	3.8	16	19	62	3.8	55	1.3	19	6.5	0.26	6.4	6.3
	3	44	18	59	31	100	68	4.1	18	40	131	4.6	67	1.6	23	3.0	0.12	3.0	3.0
	4	58	19	62	32	106	80	4.8	21	55	180	6.6	96	2.6	38	2.4	0.10	2.2	2.2
8 mm X 4mm	2.5	36	16.5	54	28	92	72	4.3	19	39	128	4.2	61	1.7	25	3.6	0.14	3.1	3.1
	3	44	18	59	31	100	87	5.2	23	60	197	5.7	83	2.7	39	2.6	0.10	2.0	2.0
	4	58	19	62	32	106	100	6	26	70	230	7.4	107	3.4	49	2.4	0.10	1.7	1.7
10 mm	2.5	36	17	56	29	95	98	5.9	26	82	269	5.4	78	2.9	42	2.3	0.09	1.5	1.5
	3	44	19.5	64	33	109	107	6.4	28	85	279	6.3	91	3.3	48	2.0	0.08	1.4	1.4
	3.5	51	20.5	67	35	114	117	7	30	95	312	7.6	110	4.1	59	1.9	0.08	1.3	1.3

**\*Note:** The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

# IRRICRUISER MINI PLUS TD1750-150



New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**150m run length - 75m of 45mm hose -  
Auto-Stop with Water Cut-off Mechanism**



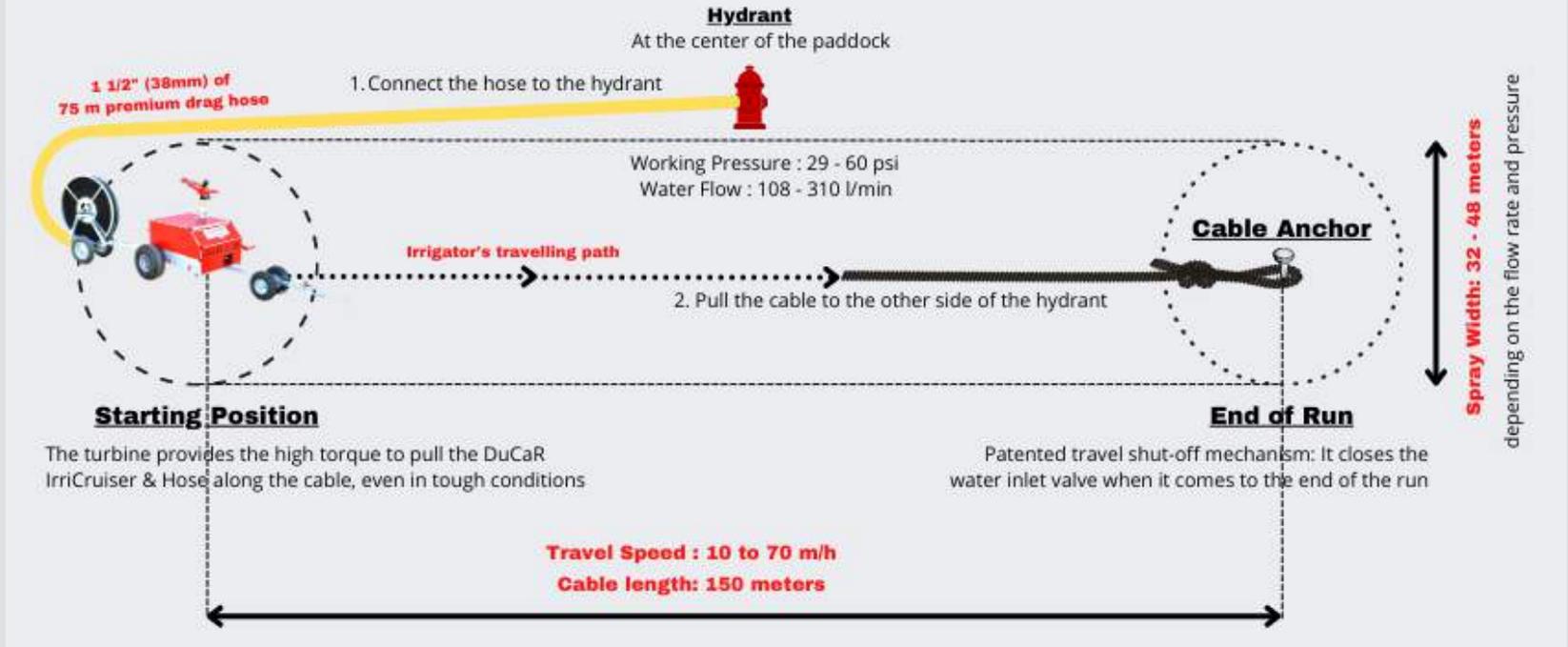
**DuCaR®**  
**Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)



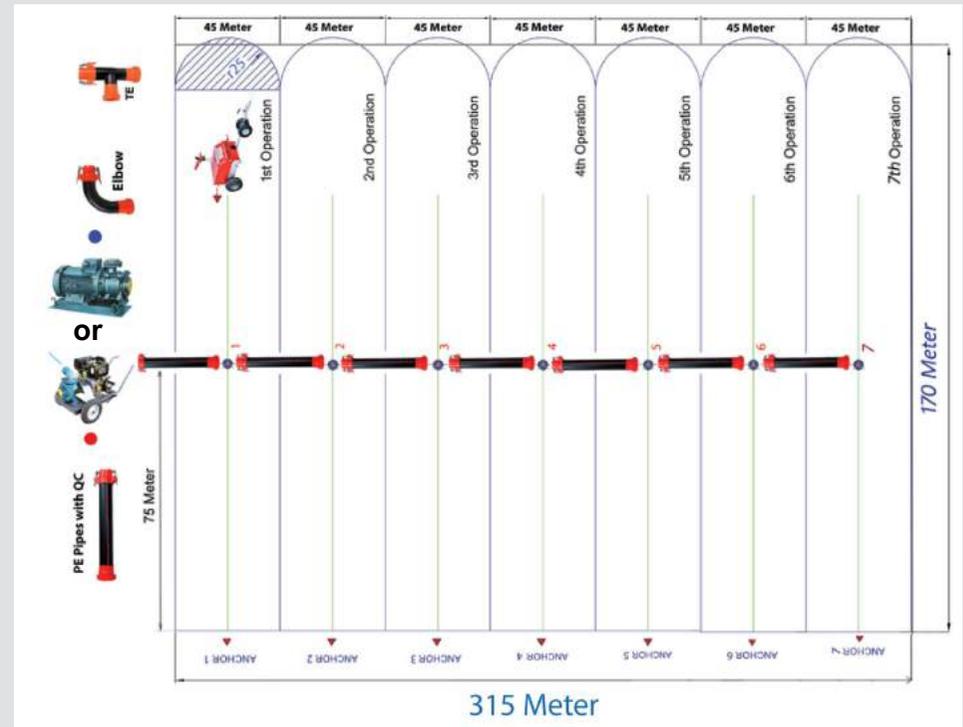
**IRRICRUISER  
MINI PLUS  
TD1750-150**

**IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION**



**IRRICRUISER IRRIGATION SYSTEM FOR 5.3 HE  
170 Meter x 315 Meter**

Irricruiser Mini Plus TD1750-150 With 5.5 HP Gasoline Motorpump  
Irricruiser Mini Plus TD1750-150 With 4.5 HP Electrical Motorpump



**DuCaR®  
Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

# IRRICRUISER MIDI PLUS TD2500-200



**DuCaR®**  
**Sprinklers** Australia

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

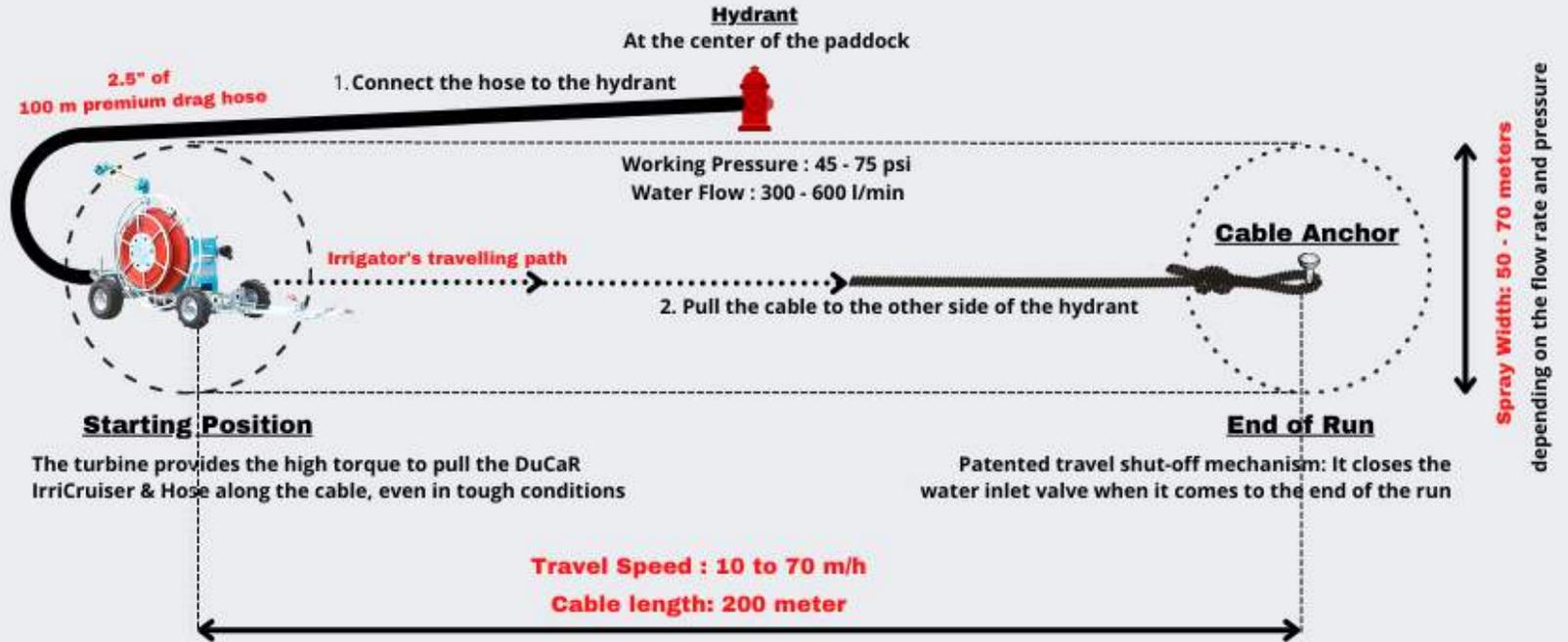
New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**200m run length - 100m of 65mm hose - PTO Driven Integrated Hose Reel**



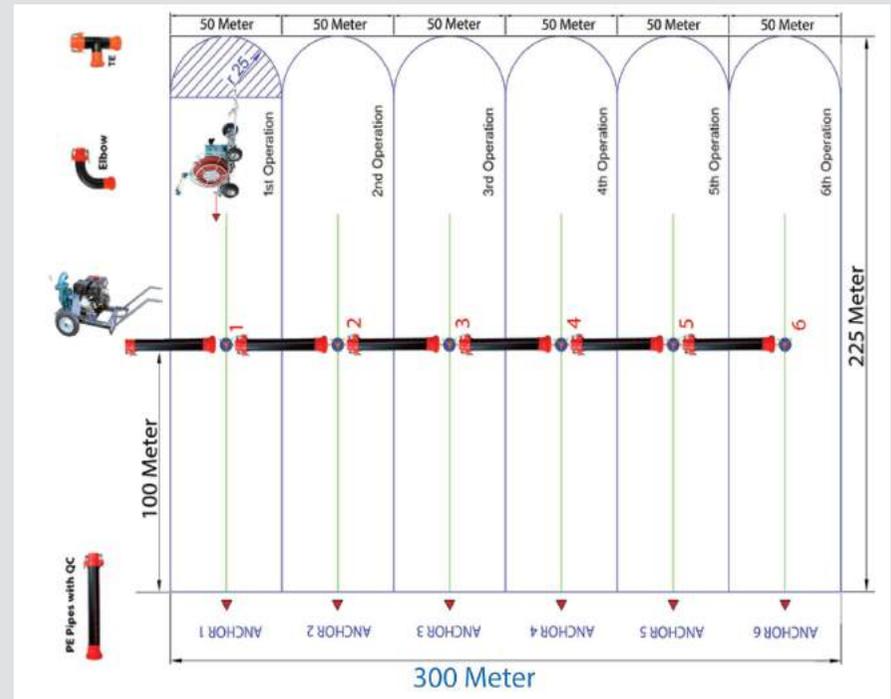
**IRRICRUISER  
MIDI PLUS  
TD2500-200**

**IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION**



**IRRICRUISER IRRIGATION SYSTEM FOR 6.75 HE  
225 Meter x 300 Meter**

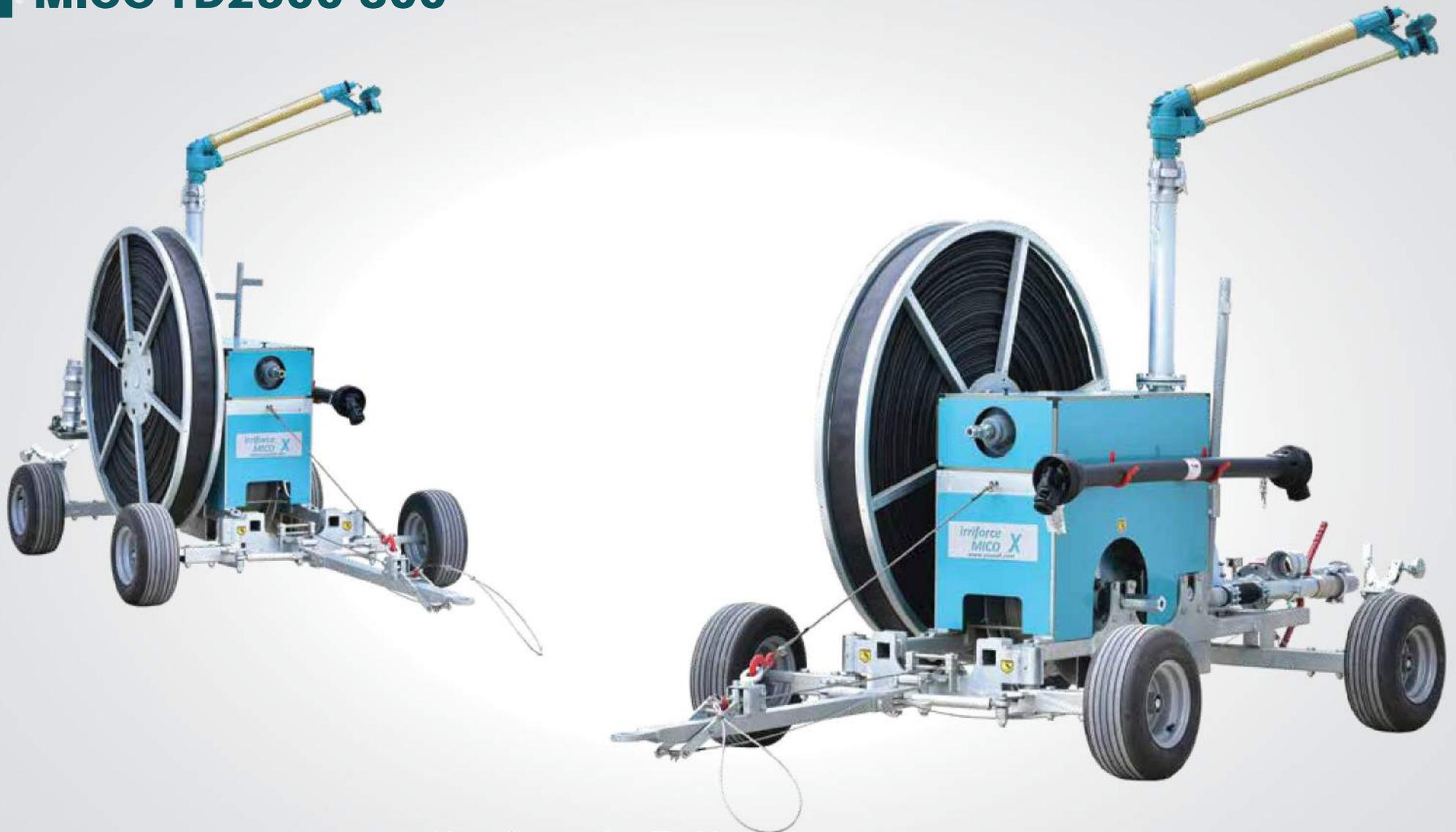
Irricruiser Midi Plus TD2500-200 With 17HP Diesel Motorpump



**DuCaR®  
Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

# IRRICRUISER MICO TD2500-300



New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**300m run length - 150m of 65mm hose - PTO Driven Integrated Hose Reel -  
Patented Speed Adjustment and By-pass Mechanism**

**DuCaR®**  
**Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

## IrriCruiser Mico TD2500-300 RAINFALL AND VELOCITY RELATIONS TABLE

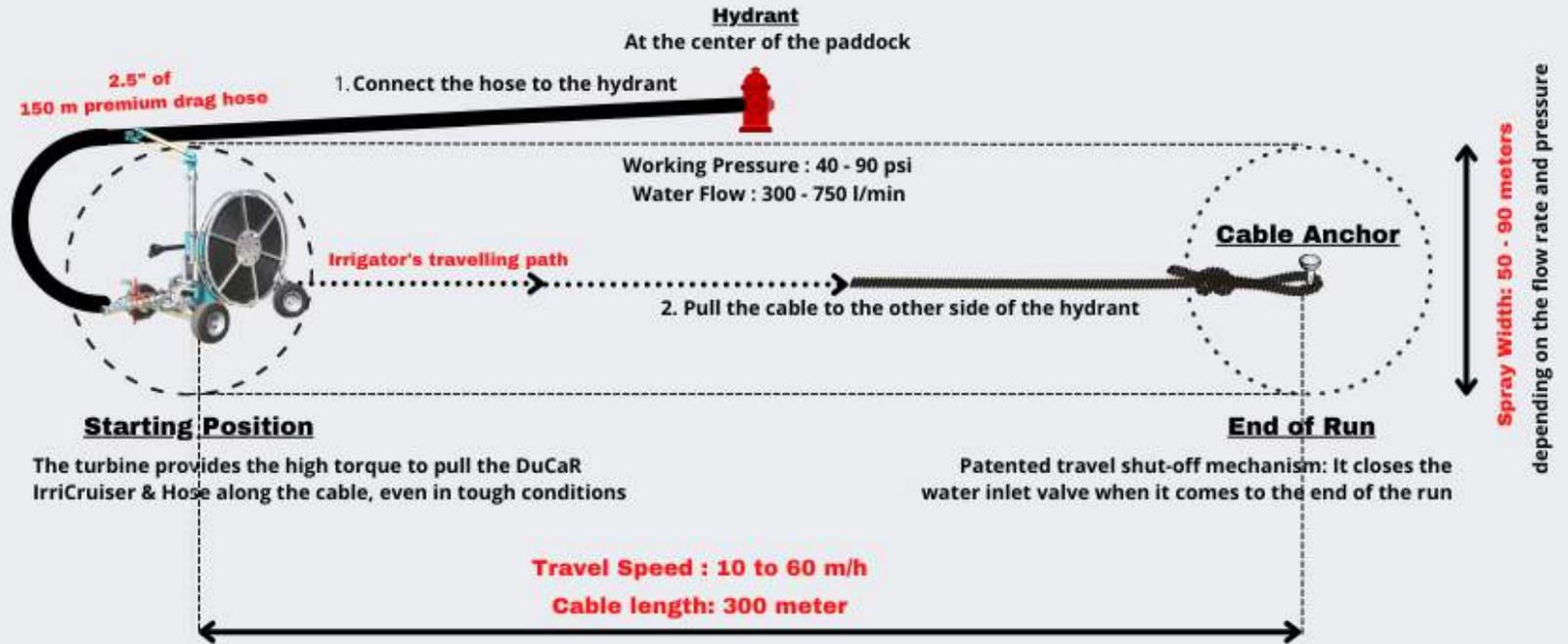
**Sprinkler Type:** DuCaR Jet 55  
**Hose Diameter and Length:** Diameter: 65 mm (2 1/2"); Length: 150 meters  
**Traveller Length:** 300 meters

Nozzle Size	Sprinkler Pressure		Sprinkler Throw Range		% 85 of Throw Diameter of Sprinkler		Flow Rate			Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure	
										Rainfall		Rainfall		Rainfall		Rainfall		Rainfall		Rainfall		Rainfall		Rainfall					
										bar	psi	m	ft	l/min	m <sup>3</sup> /hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour
14 mm	2.5	36	25	82	43	139	237	14.2	62	32	104	4.2	61	21	69	4	58	16	52	3.8	55	13	42	3.8	55	11	35	3.8	55
	3	44	28	92	48	156	247	14.8	64	29	96	4.5	65	20	64	4.3	62	15	48	4.5	65	12	38	4.5	65	10	32	4.5	65
	4	58	31	102	53	173	287	17.2	75	31	100	5.5	80	20	67	5.3	77	15	50	5.7	83	12	40	5.7	83	10	33	5.7	83
	4.5	65	32	105	54	178	300	18	78	31	101	6	87	21	68	5.8	84	15	51	6.2	90	12	41	6.2	90	10	34	6.2	90
16mm	3	44	30	98	51	167	308	18.5	80	34	112	4.5	65	23	74	4.3	62	17	56	4.0	58	14	45	4.0	58	11	37	4.0	58
	4	58	34	112	58	190	358	21.5	93	35	113	5.7	83	23	76	5.5	80	17	57	5.2	75	14	45	5.2	75	12	38	5.2	75
	4.5	65	34	112	58	190	370	22.2	96	36	117	6.2	90	24	78	6	87	18	59	5.7	83	14	47	5.7	83	12	39	5.7	83
18mm	3	44	32	105	54	178	390	23.4	101	40	132	4.8	70	27	88	4.6	67	20	66	4.3	62	16	53	4.3	62	13	44	4.3	62
	4	58	35	115	60	195	445	26.7	116	42	137	6	87	28	91	5.8	84	21	68	5.5	80	17	55	5.5	80	14	46	5.5	80
	4.5	65	38	125	65	212	472	28.3	123	40	132	6.6	96	27	88	6.4	93	20	66	6.1	88	16	53	6.1	88	13	44	6.1	88
20mm	3	44	35	115	60	195	463	27.8	120	43	142	5	73	29	95	4.8	70	22	71	4.5	65	17	57	4.5	65	14	47	4.5	65
	4	58	38	125	65	212	548	32.9	143	47	154	6.5	94	31	103	6.3	91	23	77	6	87	19	62	6	87	16	51	6	87
	4.5	65	39	128	66	217	583	35	152	49	159	7.2	104	32	106	7	102	24	80	6.7	97	19	64	6.7	97	16	53	6.7	97

**\*Note:** The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

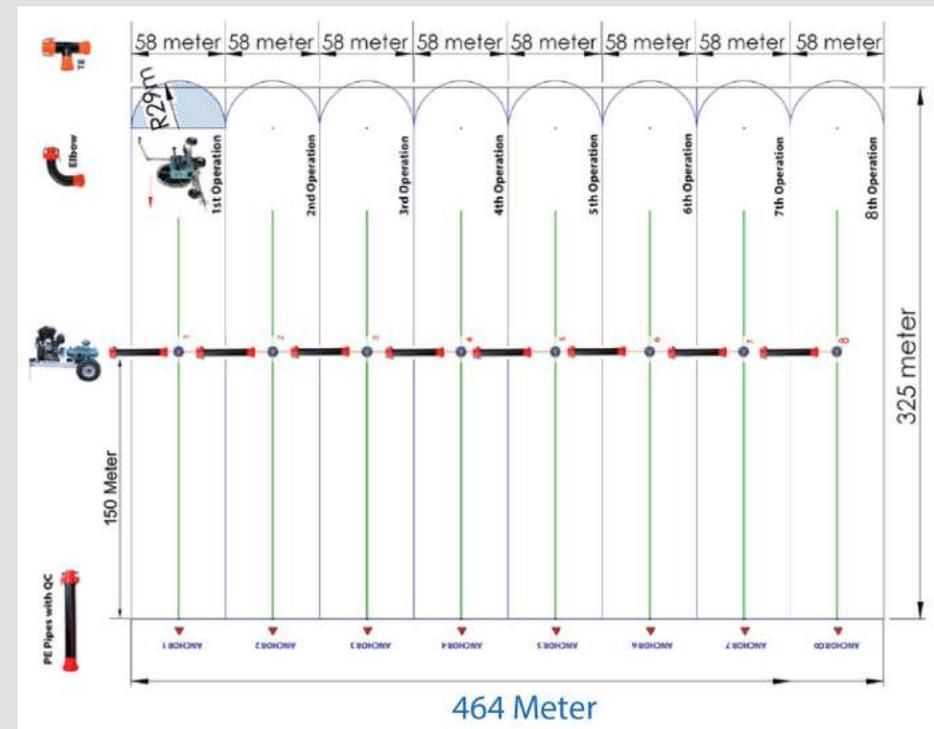
**IRRICRUISER  
MICO  
TD2500-300**

**IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION**



**IRRICRUISER IRRIGATION SYSTEM FOR 15 HE  
325 Meter x 464 Meter**

Irricruiser Mico TD2500-300 With 17 HP Diesel Motorpump  
Irricruiser Mico TD2500-300 With 15 HP Electrical Motorpump



**DuCaR®  
Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

# IRRICRUISER COMFORT TD3000-400



**DuCaR<sup>®</sup>**  
**Sprinklers** Australia

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**400m run length - 200m of 76mm hose - PTO Driven Purge Pump**

## IrriCruiser Comfort TD3000-400 RAINFALL AND VELOCITY RELATIONS TABLE

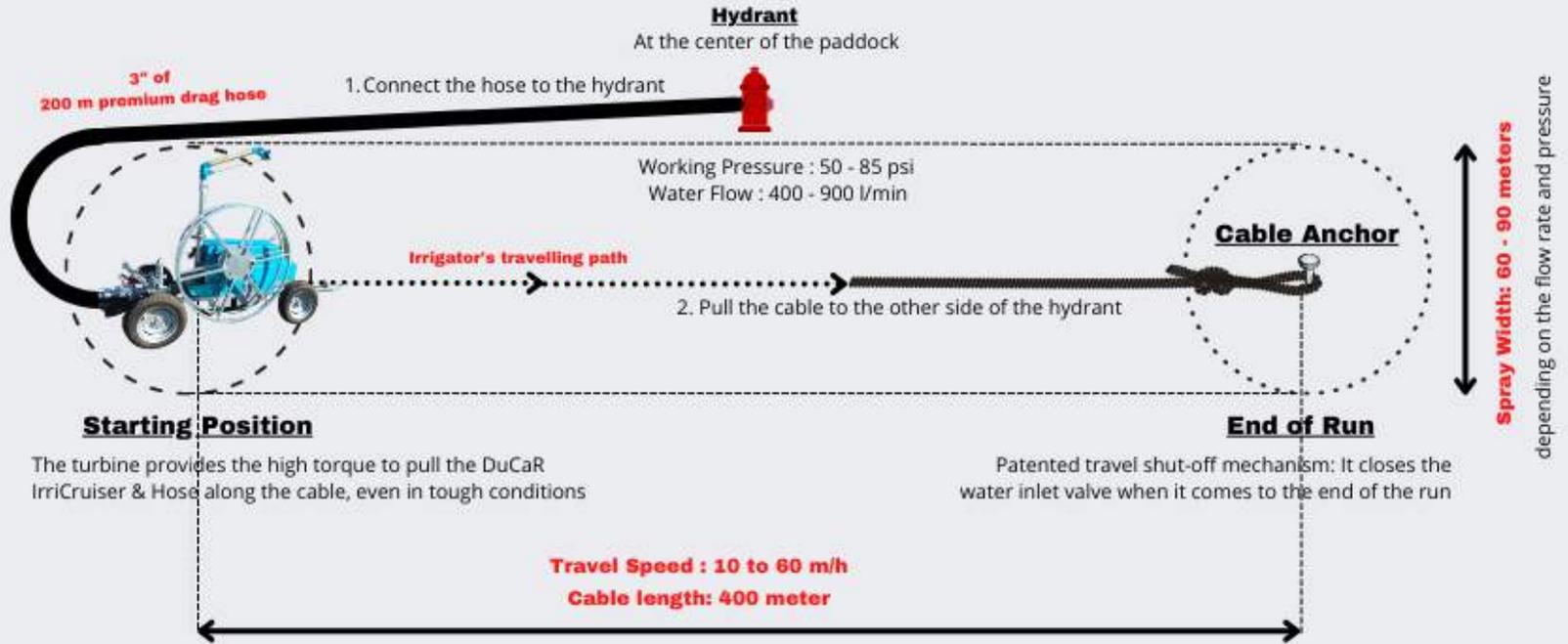
**Sprinkler Type:** DuCaR Jet 55  
**Hose Diameter and Length:** Diameter: 76 mm (3"); Length: 200 meters  
**Traveller Length:** 400 meters

Nozzle Size	Sprinkler Pressure		Sprinkler Throw Range		% 85 of Throw Diameter of Sprinkler		Capacity			Flow Rate		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss		Turbine Friction Loss							
										Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure		Linear Velocity		Total Pressure	
										bar	psi	m	ft	m	ft	l/min	m <sup>3</sup> /hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar
20mm	3	44	35	115	60	195	467	28	121	44	146	4.9	71	30	97	4.7	68	22	73	4.4	64	18	58	4.4	64	15	49	4.4	64				
	4	58	38	125	65	212	550	33	143	48	158	6.2	90	32	105	6	87	24	79	5.7	83	19	63	5.7	83	16	53	5.7	83				
22mm	5	73	42	138	71	234	617	37	160	48	159	7.4	107	32	106	7.2	104	24	79	6.9	100	19	64	6.9	100	16	53	6.9	100				
	3	44	36	118	61	201	567	34	147	52	172	5.3	77	35	115	5.1	74	26	86	4.8	70	21	69	4.8	70	17	57	4.8	70				
24mm	4	58	40	131	68	223	683	41	178	57	185	6.6	96	38	124	6.4	93	28	93	6.1	88	23	74	6.1	88	19	62	6.1	88				
	4.5	65	42	138	71	234	733	44	191	58	189	7.3	106	38	126	7.1	103	29	94	6.8	99	23	76	6.8	99	19	63	6.8	99				
26mm	3	44	38	125	65	212	683	41	178	60	196	5.6	81	40	131	5.4	78	30	98	5.1	74	24	78	5.1	74	20	65	5.1	74				
	4	58	43	141	73	240	800	48	208	61	201	6.9	100	41	134	6.7	97	31	100	6.4	93	25	80	6.4	93	20	67	6.4	93				
28mm	4.5	65	44	144	75	245	850	51	221	64	208	7.8	113	42	139	7.6	110	32	104	7.3	106	25	83	7.3	106	21	69	7.3	106				
	4	58	45	148	77	251	867	52	225	63	207	6.6	96	42	138	6.4	93	32	104	6.1	88	25	83	6.1	88	21	69	6.1	88				
28mm	4.5	65	46	151	78	256	917	55	238	65	214	8.1	117	44	143	7.9	115	33	107	7.6	110	26	86	7.6	110	22	71	7.6	110				
	4	58	47	154	80	262	1033	62	269	72	236	7.5	109	48	157	7.3	106	36	118	7.0	102	29	94	7.0	102	24	79	7.0	102				

**\*Note:** The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

**IRRICRUISER  
COMFORT  
TD3000-400**

**IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION**

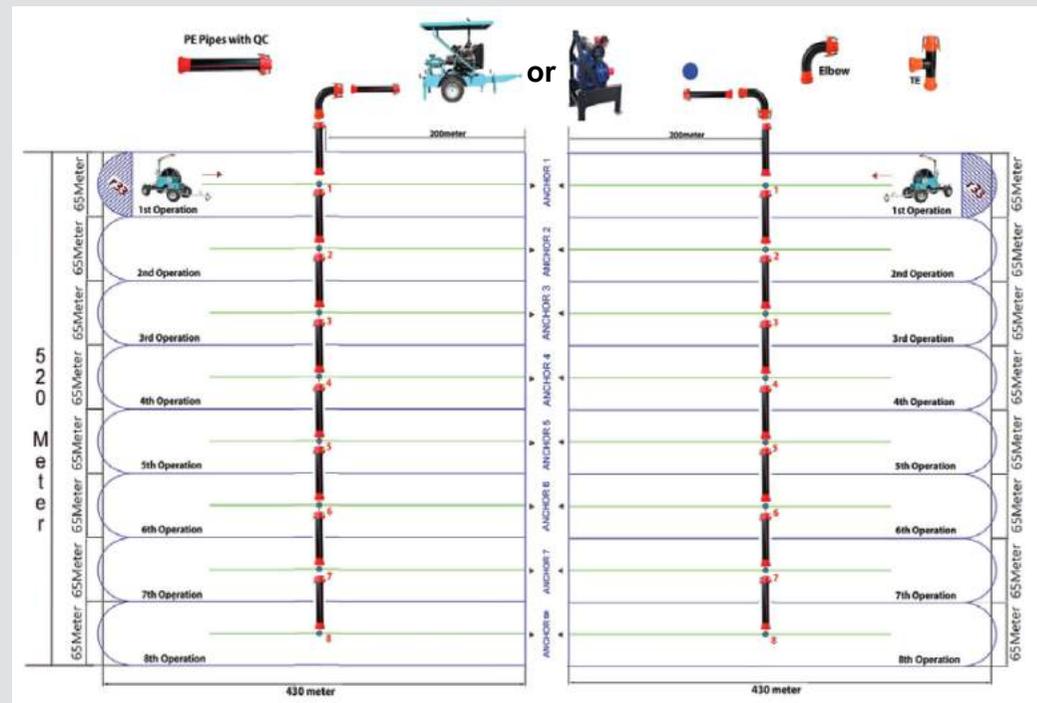


**IRRICRUISER IRRIGATION SYSTEM FOR 44 HE  
860 Meter x 520 Meter**

Irricruiser Comfort TD3000-400 With 45HP Diesel Motorpump  
Irricruiser Comfort TD3000-4000 With DuCaR DKT80  
PTO Tractor Pump

**DuCaR®  
Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)



# IRRICRUISER ULTIMATE



**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

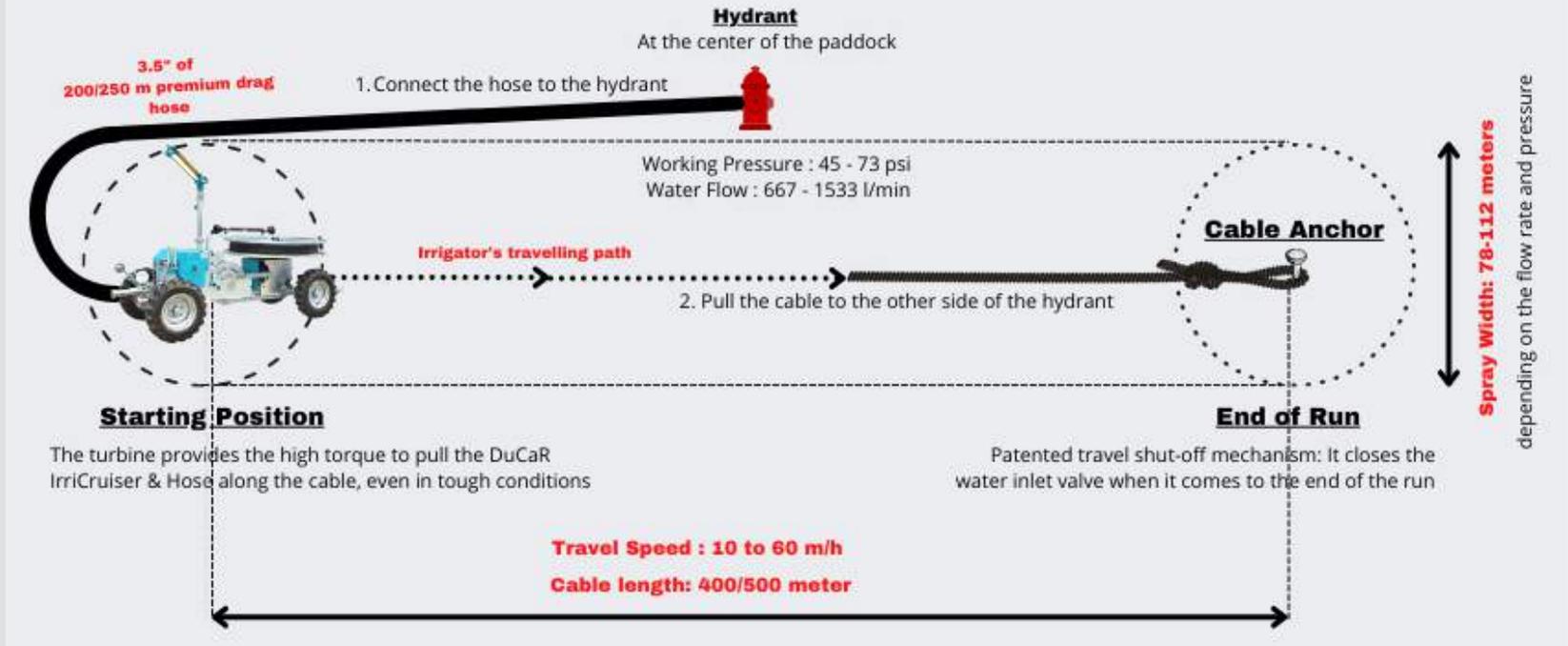
New Generation Turbine Driven  
Soft Hose Travelling Irrigator

**400m/500m run length - 200m/250m of 90mm hose - PTO Driven Purge Pump**



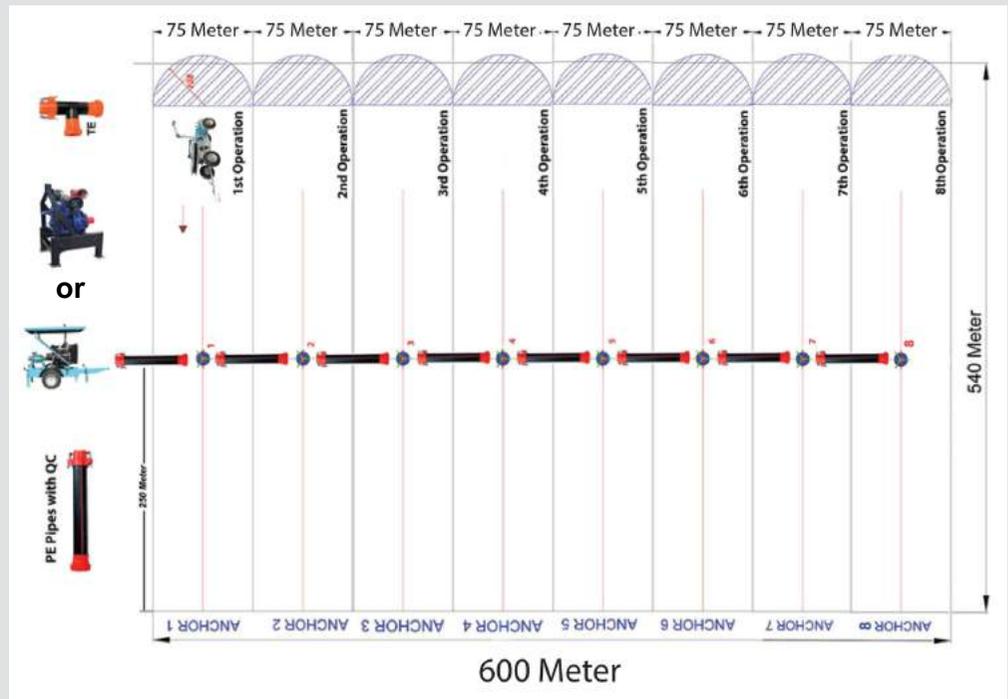
# IRRICRUISER ULTIMATE TD3500-500

## IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION



## IRRICRUISER IRRIGATION SYSTEM FOR 32 HE 540 Meter x 600 Meter

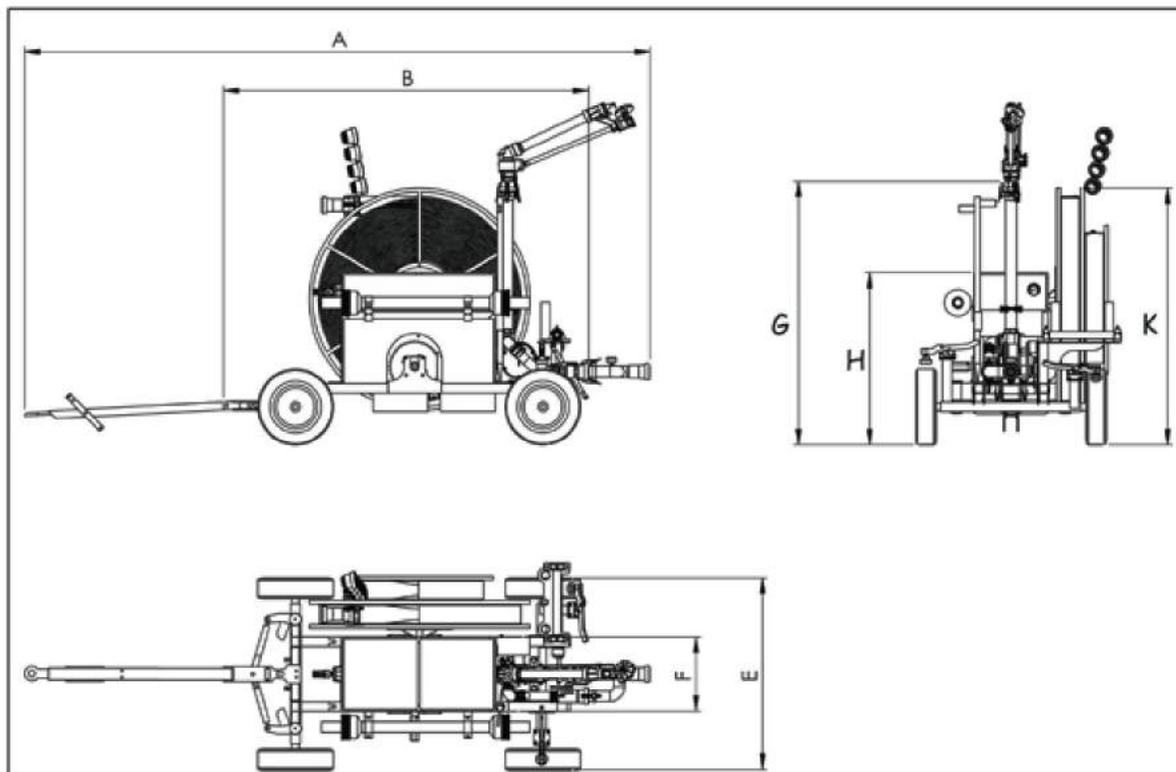
Irricruiser Ultimate TD3500-500 With 45HP Diesel Motorpump  
Irricruiser Ultimate TD3500-500 With DuCaR DKT80  
PTO Tractor Pump



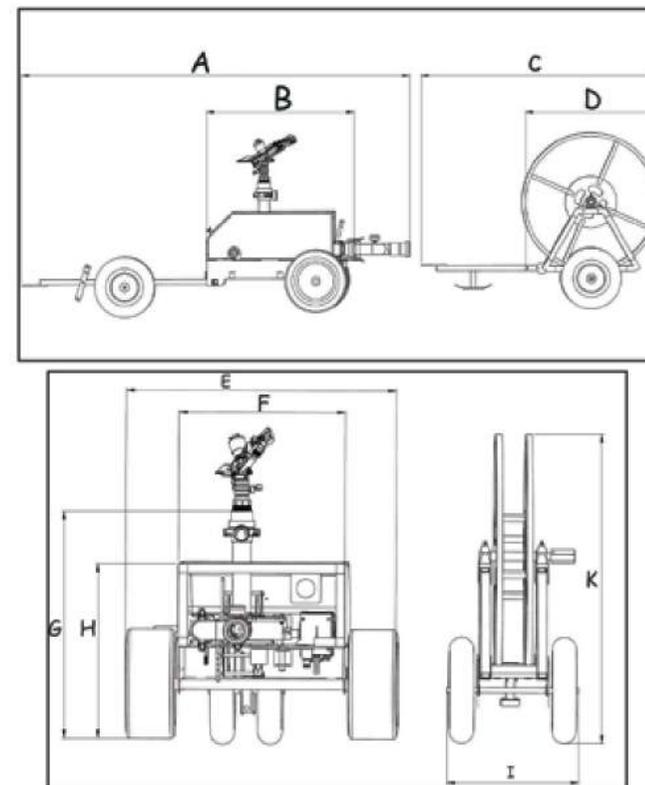
**DuCaR®**  
**Sprinklers Australia**

[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

## MIDI PLUS, MICO, COMFORT, ULTIMATE



## LAWN MASTER, MINI, MINI PLUS



IRRIGATOR MODEL	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)	F (cm)	G (cm)	H (cm)	I (cm)	J (cm)	K (cm)	NET WEIGHT (kg)	NET WEIGHT (lb)
LAWN MASTER	83	64			52	37	60	41				35	77
MINI	97	66	130	70	60	42	55	42	72	55	80	92	203
MINI PLUS	225	85	130	70	85	55	71	60	72	55	80	170	375
MIDI PLUS	345	200			113	40	142	92			140	480	1058
MICO	378	240			146	41	168	100			148	600	1323
COMFORT	400	264			114	42	167	100			155	780	1790
ULTIMATE	480	336			210	56	183	101			123	1400	3086

**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*



[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)

**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*



[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)



DuCaR<sup>®</sup>  
Sprinklers *Australia*



[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)



**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*



**DuCaR<sup>®</sup>**  
**Sprinklers** *Australia*



**DuCaR Sprinklers Australia**  
**12/49 Jijaws Street Sumner QLD 4074**  
**(07) 3088 8096**  
**[sales@ducarsprinklers.com.au](mailto:sales@ducarsprinklers.com.au)**  
**[www.ducarsprinklers.com.au](http://www.ducarsprinklers.com.au)**

**Turkey**  
Discover  
the potential

**CE**  
ISO 9001:2008