



## IRRICRUISER ULTIMATE TRAVELLING IRRIGATOR

Latest Technology, heavy duty, easy to use, efficient, large spray width, turbine drive, soft hose travelling irrigator with FREE 3", 200 m lay flat hose.

Run Length	: 400 or 500 m
Lay Flat Hose	: FREE 3" 200 m Premium Drag Hose
Working Pressure	: 70 - 100 psi
Water Flow	: 500 - 1500 l/min
Effective Spray Width	: 70 - 120 m
Total Irrigated Area	: 445 X 630 m = 280,350 m <sup>2</sup> (28 Hectare) in 7 days
Speed	: 10 - 70 m/hour
Sprinkler	: DuCaR Green 150
Mechanism	: Turbine drive, BIMA 3-Speed Gear Box, Automatic Winch Spooling System & Automatic Travel Shut Off
Weight	: 1200 kg
Construction	: Heavy duty welded chassis with rust proof and hot dip galvanised reel



## DuCaR IrriCruiser ULTIMATE - New Generation Travelling Irrigator

### APPLICATIONS

Agriculture: Small to medium crops, pastures and dairy farms

Turf Irrigation: Golf, race courses, playing fields and gardens

Dust Control: Mining and construction sites

### FEATURES

- **Heavy duty design**
- **Hot dip galvanised hose reels – rust proof frame**
- **Travel shut-off mechanism**
- **High efficient turbine:** Depending on the water volume and pressure the turbine nozzle can be easily changed without tools. Delivers high torque at low RPMs even near end of run.
- **3-speed Italian made gear box:** By adjusting the most efficient turbine rotation and speed, you can save energy.
- **Sensitive speed control:** Extremely wide range of speed for any crop and application.
- **Manual brake system**
- **Rear Tyres 750 x 16 - Front Tyre : 4.5 x 12**
- **Automatic winch spooling system:** Provides perfectly rolled cable and extends cable's life span.
- **PTO driven integrated hose reel**
- **PTO driven PURGE pump** allows you to easily empty the hose before rewinding the hose
- **Portable:** The DuCaR IrriCruiser is ideal for irrigating widely scattered areas. They can be towed from field to field or farm to farm.
- **Excellent Water Uniformity:** The continuous movement of the sprinkler and traveller irrigator provides a perfect uniformity and even water distribution.
- **Long Life & Simple Maintenance:** The units are built from long life components and require a minimum of maintenance. Spare parts and backup service available.
- **Easy and safe operation**
- **Very low labour requirement:** The DuCaR IrriCruiser can easily be operated by one man and the labour consists mostly of driving a tractor.
- **Sensitive wheel system**
- **NO EXHAUST WATER - NO PISTON - NO TOO MANY MOVING PARTS**
- **Comes with 3", 200m Premium Quality German Made Drag Hose**
- **Designed in Australia, made in Turkey**



## New Generation DuCaR IrriCuriser Turbine System

- The turbine provides the high torque to pull the DuCaR IrriCuriser & Hose along the cable in tough conditions.
- DuCaR IrriCuriser develops the power as a result of water flow, not pressure. Therefore it can be operated at low pressures.
- Three speed heavy duty type; Italian made gear box coupled to the turbine provides the DuCaR IrriCuriser with a wide range of travel speeds to suit your particular crop water requirements and allows you to save a lot of energy.
- The volume of water entering the turbine is controlled by a diverter valve, which when used with the three speed gearbox, provides the DuCaR IrriCuriser with infinite range of travel speeds to suit differing crop water requirements.
- The turbine's RPM and travelling speed is read on accurate digital tachometers.
- No Filters required for the turbine drive.
- No exhaust water from the turbine drive, all water is distributed through the sprinkler.

## Technical Specifications for DuCaR Green 150 Sprinkler Head

Nozzle Diameter		Pressure		Jet Length		Capacity			Values for a single sprinkler		
									Irrigated Area		Rainfall per hour
mm	inch	atm	psi	m	feet	l/min	m <sup>3</sup> /h	G.P.M	m <sup>2</sup>	acre	mm/h
20	0,78	3	44	34	112	463,3	28	122	3846	0,95	7,2
20	0,78	4	56	38	125	548,33	33	145	4534	1,12	7,3
20	0,78	5	70	42	138	616,7	37	163	5538	1,37	6,7
22	0,86	3	44	37	121	566,7	34	150	4534	1,12	7,5
22	0,86	4	56	40	131	680,0	41	180	5024	1,24	8,1
22	0,86	5	70	44	144	753,3	45	199	6079	1,50	7,4
22	0,86	6	85	47	154	818,3	49	216	6936	1,71	7,1
24	0,94	4	44	43	141	730	43,74	193	5806	1,43	7,5
24	0,94	5	56	49	161	815	48,90	215	7539	1,86	6,5
24	0,94	6	70	52	171	893	53,58	236	8491	2,10	6,3
26	1,02	4	56	49	161	856	51,36	226	7539	1,86	6,8
26	1,02	5	70	50	164	957	57,42	253	7850	1,94	7,3
26	1,02	6	85	54	177	1048	62,88	277	9156	2,26	6,9
28	1,1	4	56	51	167	992	59,52	262	8167	2,02	7,3
28	1,1	5	70	55	180	1109	66,54	293	9499	2,35	7,0
28	1,1	6	85	58	190	1215	72,9	321	10563	2,61	6,9
30	1,18	5	70	56	184	1222	73,32	323	9847	2,43	7,4
30	1,18	6	85	62	203	1393	83,58	368	12070	2,98	6,9
30	1,18	7	100	64	210	1505	90,3	398	12861	3,18	7,0
32	1,25	5	85	62	203	1449	86,94	383	12070	2,98	7,2
32	1,25	6	100	64	210	1587	95,22	419	12861	3,18	7,4
32	1,25	7	100	66	216	1814	108,84	479	13678	3,38	8,0

							Tribune Pressure Lost	1,3	Tribune Pressure Lost	1,1	Tribune Pressure Lost	0,8	Tribune Pressure Lost	0,8	Tribune Pressure Lost	0,8	Tribune Pressure Lost	0,8
				Capacity		Irrigated Area	10 mm rainfall		15 mm rainfall		20 mm rainfall		25 mm rainfall		30 mm rainfall		40 mm rainfall	
Nozzle Size	Sprinkler Pressure ( Bar )	Sprinkler Throw Range ( m )	% 85 of Throw Diameter of Sprinkler ( m )	Flow Rate Liter/Min	Flow Rate m³ / Hour	m²	Irriforce Lineer Velocity meter/hour	Total Pressure Bar	Irriforce Lineer Velocity meter/hour	Total Pressure Bar	Irriforce Lineer Velocity meter/hour	Total Pressure Bar	Irriforce Lineer Velocity meter/hour	Total Pressure Bar	Irriforce Lineer Velocity meter/hour	Total Pressure Bar	Irriforce Lineer Velocity meter/hour	Total Pressure Bar
20mm	3	35	60	463	27,8	25190	47	4,8	31	4,6	23	4,3	19	4,3	16	4,3	12	4,0
	4	38	65	548	32,9	27478	51	6,1	34	5,9	25	5,6	20	5,6	17	5,6	13	5,3
	5	42	71	617	37	30561	52	7,3	35	7,1	26	6,8	21	6,8	17	6,8	13	6,5
	6	44	75	700	42	32116	56	8,6	37	8,4	28	8,1	22	8,1	19	8,1	14	7,8
22mm	3	36	61	567	34	25950	56	5,1	37	4,9	28	4,6	22	4,6	19	4,6	14	4,3
	4	41	70	680	40,8	29787	59	6,5	39	6,3	29	6,0	23	6,0	20	6,0	15	5,7
	5	44	75	753	45,2	32116	60	7,7	40	7,5	30	7,2	24	7,2	20	7,2	15	6,9
	6	48	82	783	47	35253	58	9	38	8,8	29	8,5	23	8,5	19	8,5	14	8,2
24mm	3	38	65	683	41	27478	63	5,5	42	5,3	32	5,0	25	5,0	21	5,0	16	4,7
	4	43	73	800	48	31337	66	6,9	44	6,7	33	6,4	26	6,4	22	6,4	16	6,1
	5	49	83	917	55	36044	66	8,5	44	8,3	33	8,0	26	8,0	22	8,0	17	7,7
26mm	4	48	82	850	51	35253	63	7,2	42	7	31	6,7	25	6,7	21	6,7	16	6,4
	5	50	85	950	57	36836	67	8,6	45	8,4	34	8,1	27	8,1	22	8,1	17	7,8
28mm	4	49	83	1000	60	36044	72	7,9	48	7,7	36	7,4	29	7,4	24	7,4	18	7,1
	5	53	90	1100	66	39226	73	9,4	49	9,2	37	8,9	29	8,9	24	8,9	18	8,6

\* NOT :

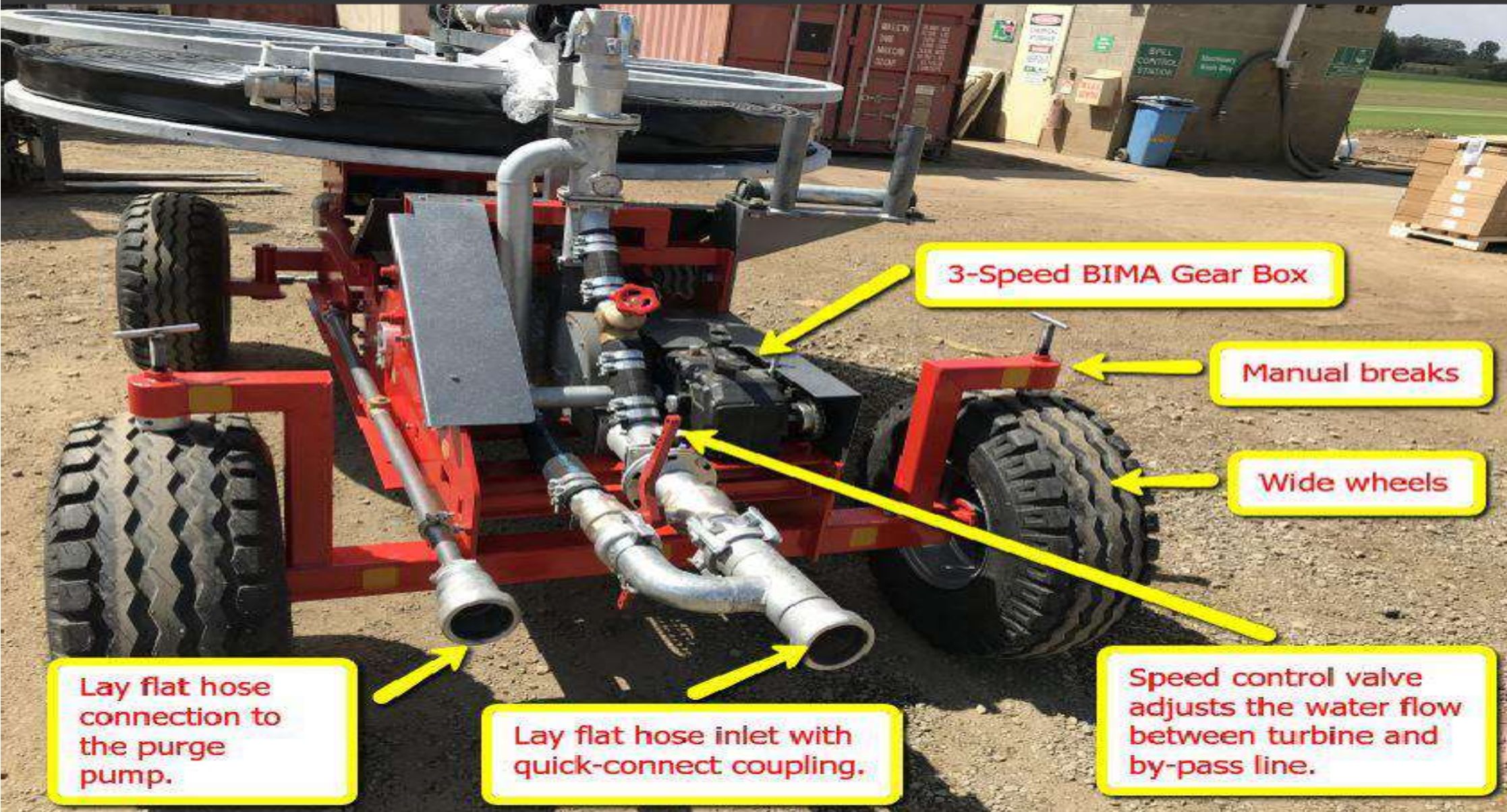
The Table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. Yüzük Makine does not accept any responsibility according to usage of this Table.



# DuCaR Sprinklers®

Australia

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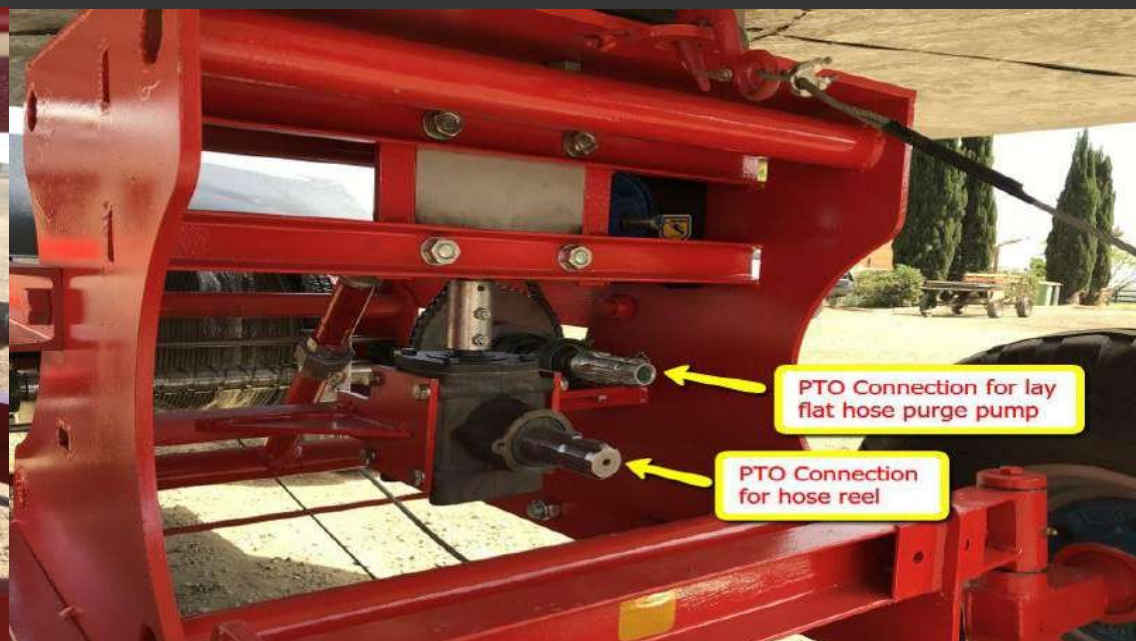
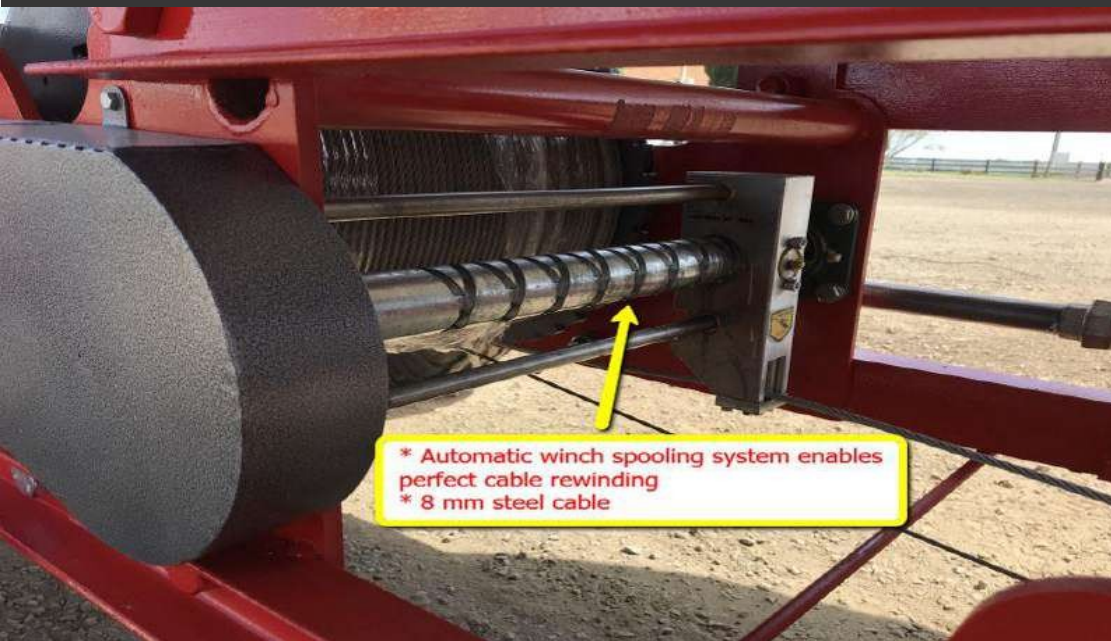




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Australia

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