

Roto Rainer System

The proven self-travelling rotary spreader and pump range



MAWDSLEYS

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The most efficient way to disperse dirty water

- Efficient - very easy to operate - low operating costs
- Galvanised finish for longlife
- Light weight - easily moved by hand
- Low level boom - drift and smell kept to a minimum
- Operates with automatic shut-off valve
- Low pressure requirement

- Low energy requirement
- Five, easily adjusted travel speeds
- Can double as water irrigation machine
- Optional folding boom
- Low maintenance
- Application rates as low as 5 mm on all machines

The right model for farm and turf



With three standard models, each offering a range of speeds, there is a suitable Roto Rainer for every application.



Model 10 MKII/200
Covers up to 200m x 25 m at each run, which can last for up to 12 hours
Model 5 MKIII
The proven workhorse of the range
Model 2
Better performance than a sprinkler



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4

Built in Britain to last - standard features

1. Simple, reliable auto-start drive mechanism. This avoids the need to return to the machine once the wire rope is pulled out.
2. Fluid auto-shut off valve for reliable shut down of water supply at the end of the run.
3. Quick and easy speed adjustment gives a choice of five different travel speeds and application rates.
4. Simple greaseable water seal and bush arrangement in the drive system require minimal long-term maintenance.

5. Wire layering device and brake system ensures tangle-free drum re-winding and wire deployment.
6. Flexible rubber nozzles (Models 5 & 10) help to pass the solids normally carried in dirty water without blockage.
7. End of run out of gear mechanism and steering assembly.
8. Anchor stake
9. Flotation tyres for low ground pressure.

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How It Works

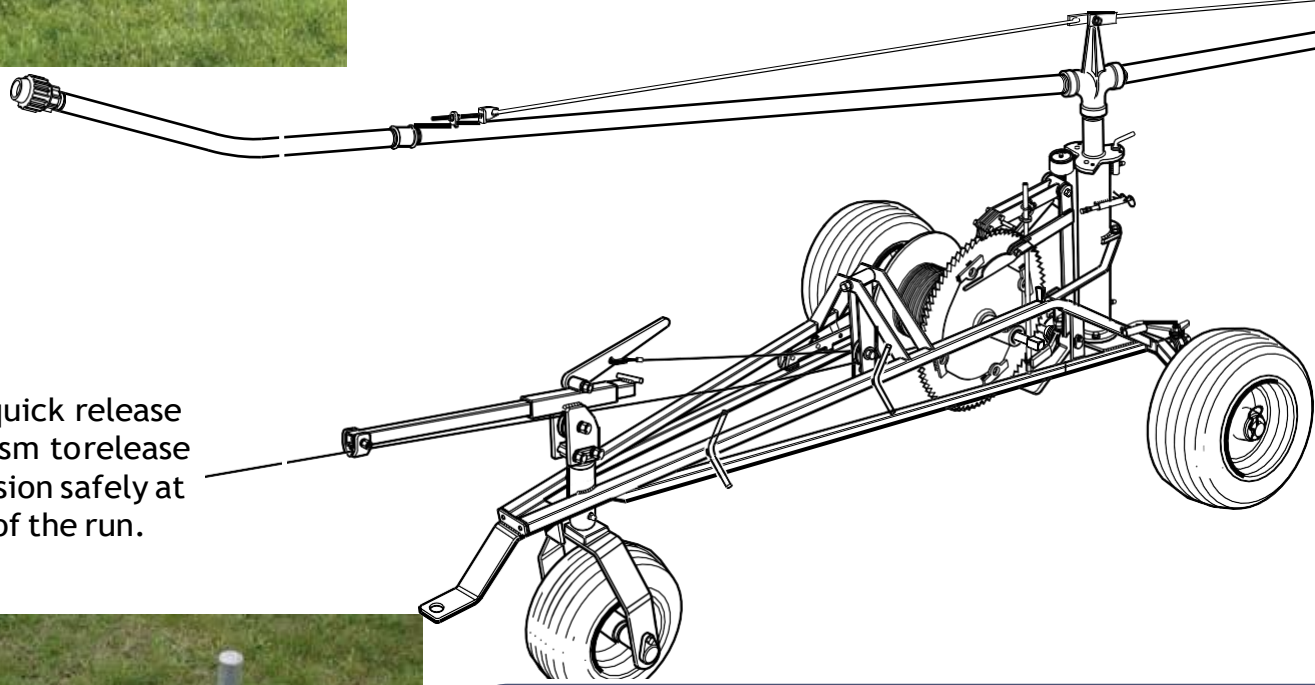
The self-travelling action is powered by the revolving boom which drives a toothed drum. The drum winds in a wire rope which is anchored at the end of the run, thus pulling the machine across the field.



2



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Below: quick release mechanism to release rope tension safely at the end of the run.



4



Options

1. Roto Rainer Models 5 and 10 can be supplied with folding booms to reduce the machine's overall length when being towed or for storage.
2. Flat rubber nozzles can be replaced with rubber cone nozzles which give improved performance at higher flow rates.
3. PVC lay flat hose can be supplied.
4. Camlock or Bauer type couplings can be fitted.

Roto Rainer Pumpsets

A choice of pumpsets is available for the whole range of Roto Rainer, ensuring the pump can be sized correctly for each site. Model 2 and Model 5 pumps are available in 3-phase or single-phase version and can pump from 2-6 m³/hr. Model 10 pumps can be supplied with 5.5 kW motors, capable of pumping 12 m³/hr or 7.5 kW motors which can pump up to 18m³/hr.



Top: Dry run protection. Above: Simple high- and low-pressure shutdown adjustment



Control panel with digital display

Benefits of Pumpset

- High quality Mono progressive cavity pump unit.
- Integrated heater with thermostat control for frost protection.
- Maintenance-free mechanical seal.
- High and low pressure shut down system.
- Float switch operated auto-start and stop system with 15m cable.
- Warning light to indicate end of run.
- Diagnostic system for troubleshooting.
- Non return valve on discharge of pump.
- Options of galvanised motor cover & Economy 7 timer.



ROTO RAINER Pumpset specification and performance

Model	Part no.	Number of Phases	Nominal Power kW (Hp)	Suction & Delivery Size (male bsp)	Pump RPM	Pressure - Bar - Metres head				
						Bar	4	6	8	10
						PSI	60	90	120	150
						Flow rate - m ³ /hr (imp gpm)				
MONOC14BM21PH2.2	RPT7	1	2.2 (3)	2"	267		3.5 (13)	3.3 (12)	3.0 (11)	2.4 (9)
MONOC14BM23PH2.2	RPT8	3	2.2 (3)	2"	267		3.5 (13)	3.3 (12)	3.0 (11)	2.4 (9)
MONOC14BM51PH2.2	RPT9	1	2.2 (3)	2"	413		5.5 (20)	5.3 (19)	**5.0 (19)	
MONOC14BM53PH2.2	RPT10	3	2.2 (3)	2"	413		5.5 (20)	5.3 (19)	**5.0 (19)	
MONOC14BM51PH3.0	RPT11	1	3 (4)	2"	443		6.2 (23)	5.9 (21)	5.5 (20)	4.8 (17)
MONOC14BM53PH3.0	RPT12	3	3 (4)	2"	443		6.2 (23)	5.9 (21)	5.5 (20)	4.8 (17)
MONOC15BM103PH5.5	RPT13	3	5.5 (7.5)	3"	442		12.3 (45)	12.0 (44)	11.3 (41)	10.5 (38)
MONOC15BM103PH7.5	RPT14	3	7.5 (10)	3"	590		16.5 (61)	16.2 (61)	15.3 (56)	14.5 (53)
MONOC16BM103PH7.5(2)	RPT15	3	7.5 (10)	3"	350		17.0 (62)	17.0 (62)	16 (59)	15.5 (57)

**Max pressure 7 bar.

Tested on water at 20°C

Pump Options



Motor coverplate.



Economy 7 timer.



Auto line drain.



Inverter for 2.2 & 3KW models.

Roto Rainer specification and performance

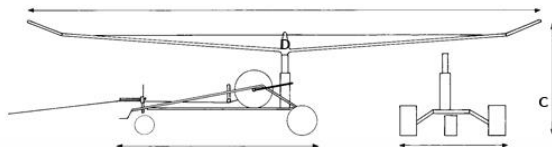
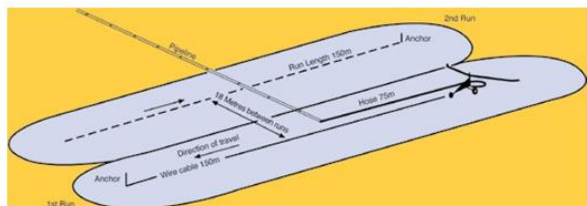
	Model 2	Model 5 MK III	Model 10 MKII/200	Model 10 MKII/300
Run Length - m (ft)	150 (495)	200 (660)	200 (660)	300 (990)
Wetted Width - m (ft)	18 (59)*	20 (66)*	25 (82)*	25 (82)*
Area Per Setting - ha (acres)	0.27 (0.67)*	0.4 (1)*	0.5 (1.2)*	0.75 (1.9)*
Hose size - m (ft)	75m x 32mm PE or 1" layflat (246 ft x 1")	100m x 40mm PE or 1¼" layflat (330ft x 1¼")	100m x 50mm or 63mm PE OR 2" layflat (330 ft x 2")	150m x 50mm or 63mm PE OR 2" layflat (495 ft x 2")
Flow Rate - m ³ /hr (imp gpm)	2 - 3.2 (7.3 - 12)	4 - 6 (14 - 22)	6 - 20 (22 - 70)	14 - 20 (50 - 70)
Depth Of Application - mm (inch)	2 - 17 (1/12" - 5/8")	4 - 36 (1/8" - 1 3/8")	5 - 48 (3/16" - 2")	5.6 - 48 (3/16" - 2")
Run Time - hours	5 th gear, 2.5 hours 4 th gear, 3.75 hrs 3 rd gear, 5 hours 2 nd gear, 7.5 hours 1 st gear, 15 hours	5 th gear, 4 hours 4 th gear, 6 hours 3 rd gear, 8 hours 2 nd gear, 12 hours 1 st gear, 24 hours	5 th gear, 2 hours 4 th gear, 3 hours 3 rd gear, 4 hours 2 nd gear, 6 hours 1 st gear, 12 hours	5 th gear, 3 hours 4 th gear, 4.5 hours 3 rd gear, 6 hours 2 nd gear, 9 hours 1 st gear, 18 hours
Minimum pressure - bar (psi)	2.0 (30psi)	2.0 (30psi)	2.0 (30psi)	2.0 (30psi)
Boom Length - m (ft)	5 (16.4)	7 (23)	7 (23)	7 (23)

R Roto Rainer dimensions

*Wetted width and area covered are dependent on boom length and nozzle size

(All figures printed in this brochure are for reference purposes and are not binding in detail. We reserve the right to introduce changes to the specification of our

Machine Type	Length (A) (Without boom)	Width (B)	Height (C)	Boom Length (D)	Folding Boom Length	Weight
M2	1.65m	1.0m	1.05m	5m	n/a	66kg
M5MkIII	2.0m	1.3m	1.35m	7m	2.8m	100kg
M10 MkII - 200	2.25m	1.5m	1.3m	7m	2.8m	110kg
M10 MkII - 300	2.25m	1.5m	1.3m	7m	2.8m	112kg



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