



GB MAGNUM

Travelling Raingun

WILLIAMS

NZ Patent #603925

Our reputation is spreading

The Williams GB Magnum travelling raingun irrigator is the first of its kind. The patented design combines the performance of a static raingun with the reliability of our Greenback travelling irrigator to create an irrigator that we believe surpasses all competing forms of effluent irrigation equipment. With a wetted width more than twice as wide as a traditional travelling irrigator, offering application rates and depths competitive with sprinkler systems, the Magnum is the obvious answer to your MooPoo problem.

FEATURES

Proven simple design

Application depths of 3mm - 25mm and rates below 10mm per hour

Wetted widths from 45m - 90m

5 travel speeds

Sime Synkro effluent raingun

Designed to suit flowrates from 5ltr/sec - 14ltr/sec (18 m³ - 45 m³)

Unique gland sealing system using double lipped neoprene seals

5mm galvanised, stainless steel or nylon wire rope with lengths of 250, 300 and 400m

NZ Designed and Manufactured

Neat and tidy, easy to use

Built to last

Cost effective

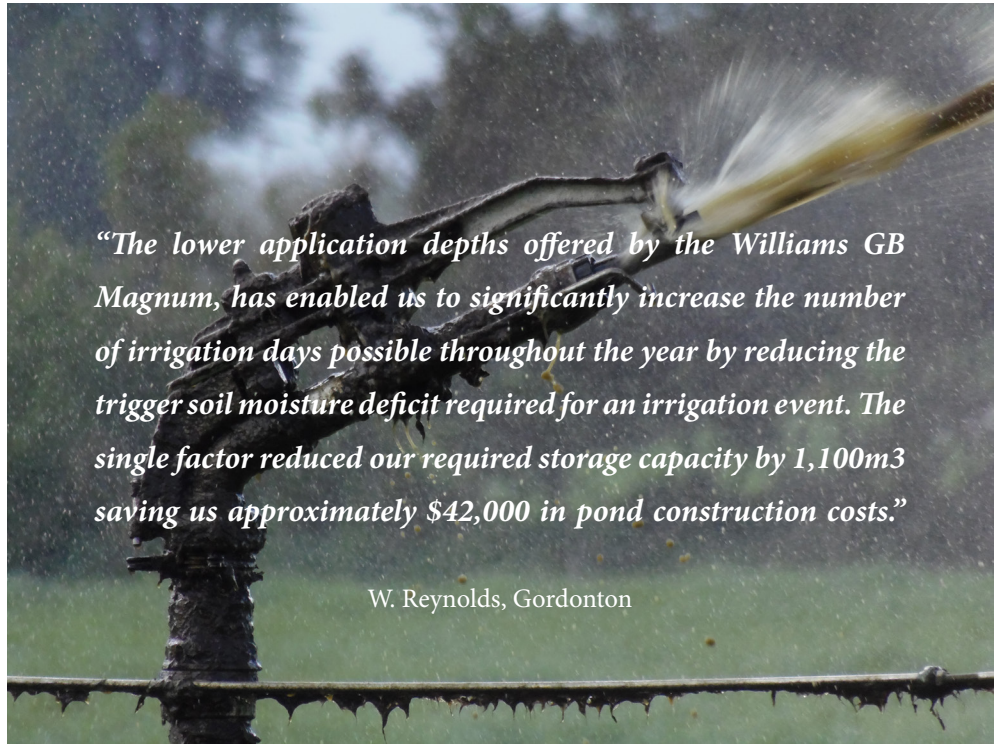


www.williamsirrigation.com

Williams' GB Magnum

SPECIFICATIONS

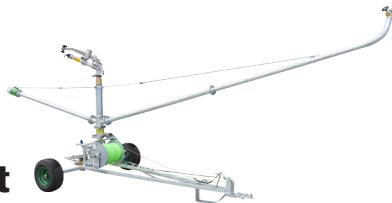
Travel Distance	250 - 400m
Wetting Width	45 - 90m
Boom Width	8.5m
Minimum Pressure	200 kpa
Maximum Pressure	600 kpa
Max. Draghose	90 od
Minimum Flow	17, 640 m3/hr
Maximum Flow	51, 360 m3/hr



“The lower application depths offered by the Williams GB Magnum, has enabled us to significantly increase the number of irrigation days possible throughout the year by reducing the trigger soil moisture deficit required for an irrigation event. The single factor reduced our required storage capacity by 1,100m3 saving us approximately \$42,000 in pond construction costs.”

W. Reynolds, Gordonton

GBMagnum



Our reputation is spreading

Performance Chart

Pressure (KPA)	Irrigator Nozzle (mm)	Synkro Nozzle (mm)	Flow Irrigator (l/min)	Flow Synkro (l/min)	Flow Total (l/min)	Radius (m) w/o Straightener	Radius (m) with Straightener	WITHOUT STRAIGHTENER		WITH STRAIGHTENER	
								Avg App Rate (mm/hour)	App Depth(mm @ 3m/min)	Avg App Rate (mm/hour)	App Depth (mm)
200	13 Hard	14	120	174	294	21.5	25.5	12.15	2.67	8.64	2.16
300	13 Hard	14	152	212	364	26	30	10.28	2.61	7.72	1.60
400	13 Hard	14	169	245	414	29.5	34	9.09	2.53	7.05	1.59
200	13 Hard	16	120	226	346	23	27	12.49	2.89	9.06	1.73
300	13 Hard	16	152	276	428	28	32	10.43	2.80	7.98	1.74
400	13 Hard	16	169	320	489	32	36	9.12	2.69	7.21	1.72
500	13 Hard	16	180	356	536	35	39	8.36	2.63	6.73	1.71
200	13 Hard	18	120	286	406	25	29	12.41	3.06	9.22	1.86
300	13 Hard	18	152	350	502	30	34	10.65	3.00	8.29	1.90
400	13 Hard	18	169	404	573	34	38	9.47	2.92	7.58	1.89
500	13 Hard	18	180	452	632	38	42	8.36	2.78	6.84	1.84
200	13 Hard	20	120	354	474	27	31	12.42	3.24	9.42	2.01
300	13 Hard	20	152	432	584	32	36	10.89	3.22	8.61	2.06
400	13 Hard	20	169	501	670	36	40	9.87	3.16	8.00	2.07
500	13 Hard	20	180	560	740	40	44	8.83	3.04	7.30	2.03
300	13 Hard	22	152	522	674	33	37	11.82	3.57	9.40	2.30
400	13 Hard	22	169	604	773	38.5	42.5	9.96	3.34	8.17	2.21
500	13 Hard	22	180	676	856	41	45	9.73	3.40	8.07	2.28

*These tests have been conducted using liquid from an effluent pond to give the most accurate results possible. This information should only be used as a guideline.

GB Magnum Parts



CODE
GBM250G
GBM250N
GBM250S
GBM300G
GBM300N
GBM300S
GBM400G
GBM400N
GBM400S

Includes Sime Synkro Raingun complete with 13mm rubber, 14, 16, 18, 20, 22mm hard nozzles.

TRAVELLING IRRIGATORS - MODEL CODE

250, 300, 400 denotes wire rope length/travel distance.
 "G" denotes Galvanised Wire Rope.
 "S" denotes Stainless Steel Wire Rope.
 "N" denotes Nylon Rope.

GB MAGNUM MOST REQUIRED PARTS



SP5L



SP110



SP1



SP2



GBM900



GBM1



GBM107

PART	CODE
Camfollower Assembly	SP5L
Side Plate Nylon Bearings	SP110
Power Nozzle	SP1
Nozzle Clamp	SP2
Cam Service Kit, bearings, seals, o ring and circlip only	GBM900
250m of 5mm Galv Wire Rope with fittings	GBM1
250m of 5mm Stainless Steel Wire Rope with fittings	GBM2
300m of 5mm Galv Wire Rope with fittings	GBM3
300m of 5mm Stainless Steel Wire Rope with fittings	GBM4
400m of 5mm Galv Wire Rope with fittings	GBM5
400m of 5mm Stainless Steel Wire Rope with fittings	GBM6
Rotor Spindle	GBM107

CAM



GBM106

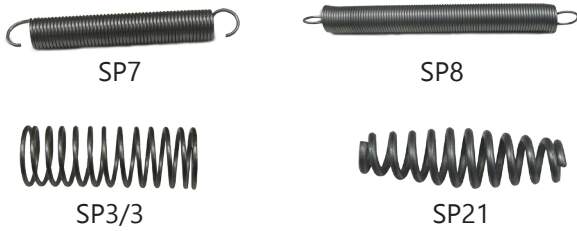
PART	CODE
Cam and bearing housing	GBM106
Bearing Top	BEAR6012
Circlip	CIRCLIP60
SS 304 Bolt	M10X35SS
Bearing Bottom	BEAR6013
SS Nyloc Nut	NYLOC10SS
O ring	ORING76X4
Galv Bolt with Nut	M10X40G
Rotor Spindle (tapered S/S pipe that carries bearings)	GBM107
Seal 60 x 95 (1x per machine)	SEAL6095

CAMFOLLOWER



PART	CODE
Bolt with grease nipple	SP5L/B
16mm SS Flat Washer	SP5L/C
Bush S/S	SP5L/D
Bearing Camfollower	SP5L/E
Complete Assembly	SP5L

SPRINGS



PART	CODE
Tooth Spring	SP7
Crank Return Spring	SP8
Brake Spring	SP3/3
Barrel Spring (takes strain off wire when irrigator is tripped out)	SP21

BRAKE ASSEMBLY



PART	CODE
Brake Assembly	SP3
Brake Block	SP3/2
Spring	SP3/3
Galv Flat Washer	WSGF10
Splitpin	SP 301

AUTO SHUT OFF VALVE

PART	CODE
65mm Shutoff Valve	GB800

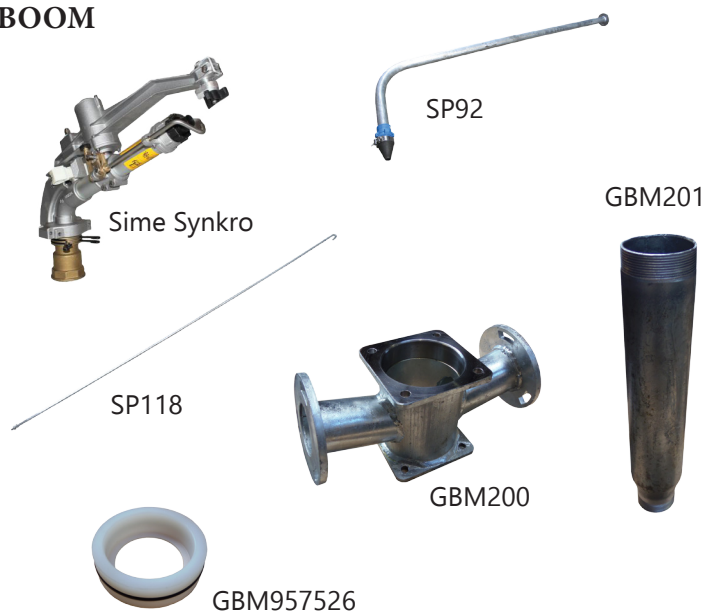


TOOTH



PART	CODE
Ratchet Tooth	SP111
Tooth pin including split pins	SP113

BOOM



PART	CODE
Sime Synkro Raingun	Sime Synkro
Rotor Intermediate Extensions	SP115
Rotor Outer Extension (includes nozzle, clamp etc)	SP92
Gland Assembly	GBM200
Spindle Stem	GBM201
Stay Rod & Nuts	SP118
Stay Rod Centre Support	GBM203
Stay Rod Short	GBM118
Nylon Bush with Seals	GBM957526
Nozzle with Clamp and Quick Release Fittings	SP0
Seal 60 x 75 (6x per machine)	SEAL6075

WIRE ACCESSORIES



SLEEVE5



THIMBLE5



GB120



SHACKLE4



SP121



SP66



SP21



SP22



SP20

PART	CODE
Wire rope 5mm Galv per metre	WIRE5G
Wire rope 5mm SS per metre	WIRE5SS
5mm Sleeve (crimp)	SLEEVE5
5mm Thimble (eye)	THIMBLE5
Trip Wire (5mm wire)	GB120
Trip Wire Shackle	SHACKLE4
Wire Guide (where the wire runs through on irrigator)	SP121
Anchoring Chain, Grab hook and D Shackle	SP66
Barrel Spring	SP21
Barrel Washer	SP22
Wire Stop (lets you stop the irrigator anywhere along the rope)	SP20

DRUM AND CRANK



SP108



SP109



SP4



GB104



GB103

PART	CODE
Left Bearing Side Plate (includes bush)	SP108
Right Bearing Side Plate (includes bush)	SP109
Winch Crank Handle	SP4
Crank	GB104
Drum with collar (not including shaft)	GB103
Stainless Steel Axle	GB91

WHEELS



GB11

PART	CODE
Wheel Assembly	GB11
Wheel Bush/pair	SP11B
Wheel Lynch Pin	B3
20mm Galv Flat Washer	WSGF20

All GB Magnums have 19mm axles.

TOW HITCH



PART	CODE
Tow Hitch Assembly (incl bolts)	SP45

WIRE LAYER



PART	CODE
Wire Layer GB Magnum	WLGBM