

**I. PIVOT MACHINE**  
**Technical Specification and Quotation**

<b>MODEL</b>	<b>ADA-969</b>		
<b>System Length</b>	<b>5×59.8+1×11.7</b>		<b>311.2 m</b>
<b>Effective Irrigation Area</b>	<b>466.4 Mu</b>		
<b>SPAN</b>			
Span Frame Model No:	MDA94		
Span Frame Length	59.8 m		
Span Frame Quantity	5		
Span Frame with Jointer	59.8 m		
Main pipe diameter	168 mm		
System height	4.2 m		
Crossing height	3.1 m		
Walking moter Power	0.55 kW		
Water Weight of Single Span	3410 kg		
Tire model	14.9-24		
Pressure Of Tire on the land	15.5 N/cm <sup>2</sup>		
Spay Nozzle Model No:	Nelson Spray D3000 BLUE		
Cantilever Length			11.7 m
Extension tube Length			0 m
Spray Nozzel Extension irrigation range			3.4 m
Irriation circle radius			314.6 m
Control Angle			360 °
Working hours Per day			24 h
Total flow rate			128.9 m <sup>3</sup> /h
Irrigation Intensity			9.9 mm/da y
Maximum Running Speed			169.3 m/h
Fastest running perid			11.1 h
Minimum Irrigation volumn			4.6 mm
Pressure of Nozzel End			1.0 bar
Input pressure			3.5 bar
Height difference from center to end			0 m
Working Power presure			380 V
Working Power Frequency			50 Hz
Demand for electric capacitance			4.4 kVA
Operating power			2.75 kW

Note: the electric capacity does not contain water pump required capacity, water pump equipment is not in our machine parts list.If well depth over 15 meters, it will need increase water pump lift head distance depending on water sources.

## Performance

### MODEL

### ADA-969

System Length	$5 \times 59.8 + 1 \times 11.7$	311.2	m
Effective Radius of Irrigation		314.6	m
Effective Irrigation Area		466.40	Mu
Total water flow rate		128.9	m <sup>3</sup> /h
Irrigation Intensity		9.9	mm/day

ADA-969 Rotation Period and speed control percentage under specified irrigation volumn

Irrigation volume (mm)		Rotation Period ( h. min )		Speed Control Percentage	
4.6	mm	11	h 6 min	100	%
6	mm	14	h 28 min	77	%
8	mm	19	h 18 min	58	%
10	mm	24	h 7 min	46	%
15	mm	36	h 11 min	31	%
20	mm	48	h 15 min	23	%
25	mm	60	h 19 min	18	%
30	mm	72	h 22 min	15	%
35	mm	84	h 26 min	13	%
40	mm	96	h 30 min	12	%

ADA-969 Irrigation volume and speed control percentage under specified rotation period

Rotation Period ( h. min )		Irrigation volume (mm)		Speed Control Percentage	
12	h	5.0	mm	92	%
16	h	6.6	mm	69	%
21	h	8.7	mm	53	%
30	h	12.4	mm	37	%
42	h	17.4	mm	26	%
54	h	22.4	mm	21	%
66	h	27.4	mm	17	%
78	h	32.3	mm	14	%
90	h	37.3	mm	12	%
102	h	42.3	mm	11	%

For the poor permeability of the soil should set smaller irrigation volumn or shorter rotation period.

#### 4. Illustration of the Pivots Structure

System Length	$5 \times 59.8 + 1 \times 11.7$	<b>311.2 m</b>
Effective Radius of Irrigation		<b>314.6 m</b>
Effective Irrigation Area		<b>466.4 Mu</b>
Total water flow rate		<b>128.9 m<sup>3</sup>/h</b>
Irrigation Intensity		<b>9.9 mm/day</b>

#### Irrigation System equipment list

##### Center Tower

1 Set	Full Circel Center Control Tower 989/MDA94
1 Set	Full circle fan shape automatic positive and negative control of the control box 380V/50Hz

##### Multi-Span frame and Drive Units:

5 Spans	Multi Span MDA94/59.8 Meters
5 units	Walking support and drive units with spray devices equipped 2 tires 14.9-24
1 Set	cantilever 11.7m meters

##### Sprinkler facility:

10 units	PC-D3000 Low pressure nozzle 180°
96 units	D3000 BLUE Low pressure nozzle 360°
106 units	Pressure reducing valve UNIVERSAL 3000 15psi (1.0 bar)