

Solar Irrigation System

Solar Center Pivot Irrigation Solution

Actual Air View World Wide

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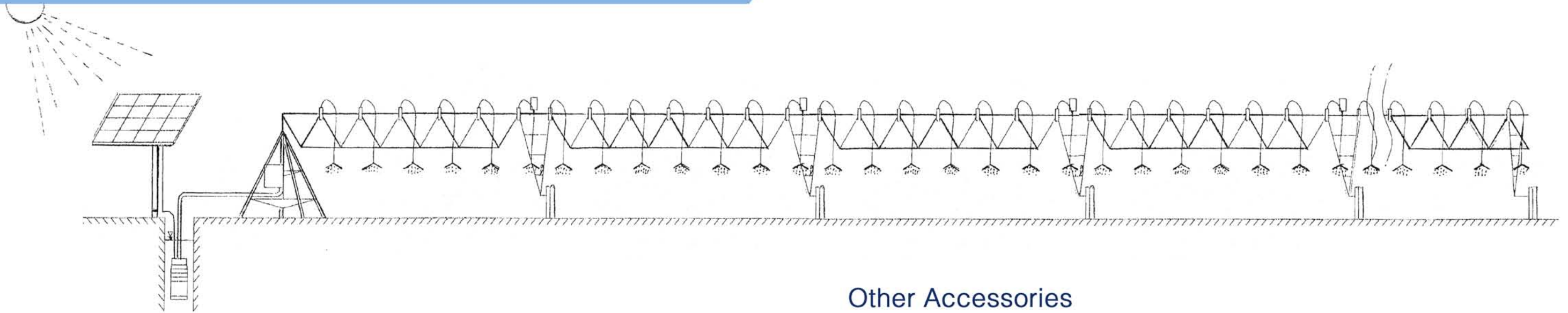
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Center Pivot Irrigation

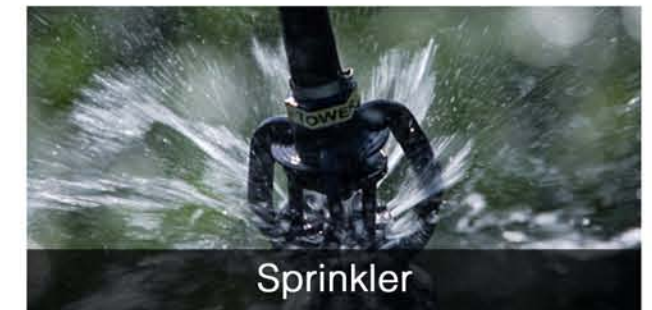
Center-pivot irrigation , also called waterwheel and circle irrigation, is a method of crop irrigation in which equipment rotates around a pivot and crops are watered with sprinklers. A circular area centered on the pivot is irrigated, often creating a circular pattern in crops when viewed from above (sometimes referred to as crop circles).



Other Accessories



Center Pivot



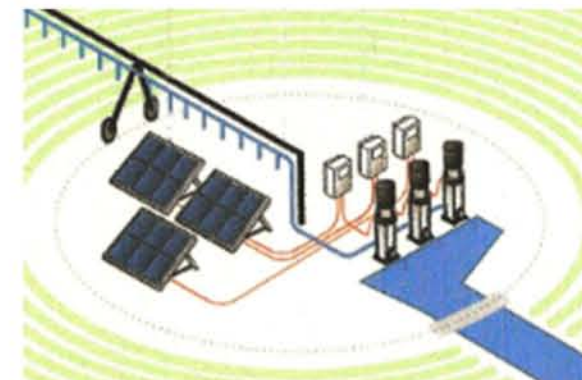
Sprinkler



Motor



Solar Panel



Solar Water Pumping System

Solar water pumping system has three key components: PV array, solar pumping inverter and pump. Utilizes the solar radiation energy to produce electricity power, which drives the pump directly, pumps the water from underground or river and conveys it to the farmland and other applications.



Water Pump



Solar Pumping Inverter

Solar Walking Motor Drive System


Solar Walking Motor Drive System train is made of two critical parts: the wheel gearbox and the center drive. Your center pivot or linear irrigation equipment can't run without a reliable drive train, and we know that it's the most important part of your machine!



Hybrid Solar Inverter



Battery

Pivot span											Extra	MAX
Length (meter)	61	122	183	244	305	366	427	454	484	800		
Area (ha)	1.18	4.47	10.55	18.74	29.27	42.14	57.34	64.76	73.6			
Water request (m³/hr) 9mm/day	4	18	40	70	110	158	215	242	276			
Walk motor (kw)	0.75	1.5	2.25	3	3.75	4.5	5.25	6	6.75			

Solar pumping system

Water source depth (m)	Water pump power (kw)									
20	1.1	3	5.5	7.5	15	18	22	30	30	
40	2.2	5.5	9.2	11	37	37	55			
80	3	9.2	15	22	75	75	90			
100	4	11	22	30	75	90	200			
150	5.5	18.5	30	45	90	132	250			

Solar walking motor system (Sunshine 5hr)

Solar power(KW)	2.14	4.29	6.43	8.57	10.71	12.86	15.00	17.14	19.29
Battery(KAH)	1.25	2.5	3.75	5	6.25	7.5	8.75	10	11.25

Power supply



Rate irrigation proposed base on crops and terrain

Crop	Frigid (HT15°C-26°C) mm/d	Lukewarm (HT 26°C-32°C) mm/d	Warm (HT 32°C-38°C) mm/d	Hot (HT ≥38°C) mm/d
Alfalfa	6.1	6.86	8.64	11.43
Corn	5.84	6.6	8.13	11.43
Cotton	5.08	5.59	6.86	9.65
Grape	3.02	4.57	5.08	6.35
Pasture grass	5.84	6.6	7.64	8.12
Peanut	5.59	6.86	8.12	9.91
Potato	5.08	6.35	8.64	11.94
Sorghum	5.33	6.6	8.13	11.43
Soybean	5.59	5.84	7.62	11.43
Sugar beet	5.08	5.84	7.62	10.92
Sugar cane	-	8.69	10	-
Wheat	5.08	5.84	7.37	9.14