

Agricultural Irrigation System

Agricultural water using was once dominated by the "overflow irrigation" method, which resulted in a low utilization rate of water sources and a lot of waste. An agricultural drip irrigation system is a relatively advanced new type of irrigation technology that can convert the original irrigated land into irrigated agriculture. Compared with traditional irrigation methods, water-saving irrigation can save 20% to 50% of water resources. The application of agricultural drip irrigation projects can significantly reduce water consumption while ensuring that the soil moisture content is always in a relatively balanced state.

Agricultural irrigation systems have obvious advantages in irrigated agriculture, but this technology has high investment costs and high material consumption. At the same time, it also has disadvantages such as easy clogging of agricultural drip tapes, which may affect the growth of agriculture roots, and easily accumulate salt. Therefore, to ensure the economic benefits of drip irrigation projects and the good growth of agriculture, it is necessary to rationally design the construction process of drip irrigation projects to maximize the life of drip irrigation facilities and ensure their normal operation without affecting agriculture growth.

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❖ Advantages of Drip Irrigation System

Principles of Agricultural Drip Irrigation Technology

Agricultural drip irrigation technology is one of the advanced drip irrigation technology, which transports water with a certain pressure through an agriculture sprinkler pipe to the capillary, and then through the dripper or orifice on the pore and other irrigation facilities, the water is slowly and evenly dripped into the soil in the form of droplets, thereby satisfying The irrigation needs of agriculture, it is a local irrigation technology. The water flow in the orifice or dripper of the drip irrigation facility is very small, and the process of water infiltration into the soil is uniform and slow. Therefore, only the soil moisture close to the dripper is always saturated, and the water in other places needs to be diffused and penetrated by capillary tension. As long as the drip irrigation time is mastered, water infiltration loss can be effectively avoided. During agricultural drip irrigation, the soil moist area is small, which also effectively reduces evaporation loss, so the water-saving effect of drip irrigation technology is very obvious.

Advantages of Drip Irrigation Technology

✦ Good soil structure and obvious water-saving effect

Agricultural drip irrigation only wets the root area of the crop, uses less water, and the drip intensity is less than the infiltration rate of the soil. It does not cause runoff to damage the soil aggregate structure and allows the water in the soil to circulate between the soil and the mulch, reducing soil evaporation. Covering mulch can also convert ineffective precipitation into effective precipitation, improve the utilization rate of precipitation, and have obvious water-saving effects.

✦ High fertilizer utilization rate

During agricultural drip irrigation, dripping fertilizer drops directly into the root-soil of the agriculture, resulting in less fertilizer loss and waste, and high fertilizer utilization. Studies have shown that the average fertilizer utilization rate of drip irrigation technology has increased from 30% to 40% to 50% to 60%.



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✦The effect of increasing production is obvious

Agricultural drip irrigation and fertilization should provide timely and appropriate water and fertilizer to the agriculture root area, regulate the temperature and humidity of the soil, improve the growth environment of the agriculture root system, and provide good conditions for agriculture growth, and the effect of increasing production is obvious.

✦Reduce production costs and expenses

With agricultural drip irrigation, there are fewer weeds between the rows of plants, reducing the cost of weeding, and the soil structure is good. There is no need to level the land, open furrows and ridges, reduce farming costs, and reduce the labor and labor costs of irrigation.

✦Reduce the occurrence of pests and diseases

Agricultural drip irrigation blocks the spread of soil pests and diseases reduce the spread of pests, soil temperature changes little, agriculture is not easy to rot, and can extend the stubble cycle.