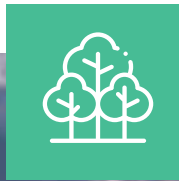
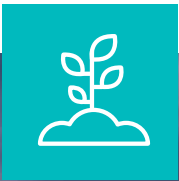




*Complete*

# **IRRIGATION SOLUTIONS**

*Made to fit your needs*





# Agriculture Irrigation Systems



Growing crops can be a challenge. One of the most significant difficulties is the increasingly unpredictable climate resulting from global warming. Crops are subjected to intense heat and cold and to unseasonal weather, which can destroy entire crops.

We use our knowledge to help crop farmers save time and money, minimize product waste, and maximize harvest quality and yield. Irrigating is a complex task that depends on your region and soil type in your field.



## OPEN FIELD CROPS IRRIGATION

**Poliext** has great experience in the production and supply of irrigation pipes, pipe fittings, and accessories for open-field irrigation designed for each type of field crop and vegetables.

Our approach is not limited to the supply of materials, but also includes services of design and customization according to the specific customer wishes and getting the best return on your inputs.



## TREE CROPS IRRIGATION

The most demanding part of starting a new orchard is to get water to the trees without delay.

Newly planted trees perform better with the drip irrigation method than with sprinklers.

Drip irrigation has a decisive impact on the fruit size and weight and the crop quality and quantity. It saves you precious water and monetary resources.



## PROTECTED CROPS IRRIGATION

Greenhouse-grown plants cannot survive without irrigation.

Greenhouses and tunnels require precise irrigation. To achieve maximum growth, the right amounts of water and nutrients, at the right time are required.

While there are different types of greenhouse irrigation systems available (including sprinkler and subsurface systems) most common one is a drip irrigation system because of its efficiency and accuracy.

# Poliext technical solutions for irrigation systems

## DRIP IRRIGATION

The drip irrigation system is the most efficient way to irrigate your tree crops and orchards. Water drips slowly to the plant roots saving water and nutrients. A drip line system also helps conserve water, which is more of a consideration in areas where water supplies might be limited.

### Poliext Polidrip® Drip Lines

Our range of drip irrigation solutions features **Pressure Compensated (PC)**, **Non - Pressure Compensated (Non-PC)**, and **No Drain Pressure Compensated (PCND)** Polidrip® drip lines.

PoliDrip® is perfect for irrigation of irregularly shaped or narrow areas. Usually operated at a lower pressure than other types of pressurized irrigation, reducing energy costs.

PoliDrip® pipe comes in various types, and sizes range from diameter 16 mm and 20 mm. It is characterized by thinner walls: from 0.8 to 1.0 mm depending on the dimension.

Fields with irregular shapes are easily accommodated, water distribution is highly uniform, controlled by the output of each nozzle.

Fertigation can be included with minimal waste of fertilizers.



## CROP BENEFITS

- Water and nutrition materials shortly get to the plant roots
- Provides the plant with the proper balance of the water and air in the soil.
- Soil erosion and weed growth is decreased
- Foliage remains dry, reducing the risk of disease
- Concentrates the roots in a defined soil volume, saving the plant's energy
- Improves the water and nutrient uptake efficiency
- Develops optimal moisture and aeration conditions
- Increases leaf area, rate of net photosynthesis and have a positive effect on the assimilation of nutrients, including a direct positive effect on productivity

## ECONOMIC BENEFITS

- Guarantees considerable quantity of the yield and a better quality besides lower expenses
- Reduces the getting weedy, and so the costs originating from this
- The simple operation and control of the irrigation system save a lot of time and costs
- Water application efficiency is high if managed correctly
- Recycled non-potable water can be safely used

## MICRO-SPRINKLER IRRIGATION SYSTEM

The use of micro-sprinklers to irrigate plants has grown considerably over recent years.

The position of sprinklers is below the canopy, and the foliage does not get wet, while at the same time, the wetting zone and irrigation volume match optimally to the tree growth stage.

Increasing wetting zone radius as the tree grows is easy and rapid, requiring only another sprinkler.

### BENEFITS

- High efficiency
- Flexibility in the timing and amount of applied water
- Less water is applied, nutrient leaching is reduced.
- The nutrient application is timed better to meet plant needs.
- Allows for the use of polyethylene mulch.
- Micro-irrigation can be used to protect small horticultural crops from freeze
- Less water usage
- Reduces pest problems
- Reduces surface crusting
- Joint management of irrigation and fertilization



## SDI SUB-SURFACE DRIP IRRIGATION

Subsurface drip irrigation is a low-pressure, high-efficiency irrigation system that uses buried driplines with extra root protection to meet crop water needs.

We offer driplines specially designed for SDI application for a wide range of operating pressure for various topographies. SDI driplines have unique and accurate regulating labyrinth mechanisms with wider water passage.

Driplines are made from long-lasting silicon diaphragms, making them durable under harsh field conditions and chemical applications.



### BENEFITS

- Precise water/nutrient delivery system that irrigates the plant's root zone
- Adapts to almost any field size, shape, or topography
- High-quality yields, greater growth consistency, and crop quality
- Low water and energy usage
- Long-lasting performance

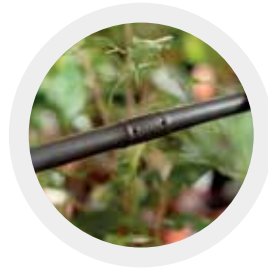
# Products that will meet your needs

Poliext has solutions suitable for the different terrene, adverse weather, and water conditions, ensuring maximum performance. This is resulting in saving water and getting maximum efficiency with a reduction of maintenance costs.



## MAIN LINE

- ◆ PE pipes
- ◆ High-pressure fittings
- ◆ High-pressure valves



## DIPLINE & ACCESSORIES

- ◆ PoliDrip PC driplines
- ◆ PoliDrip PCND driplines
- ◆ PoliDrip light PC driplines
- ◆ Low-pressure fittings and valves
- ◆ Tools and accessories



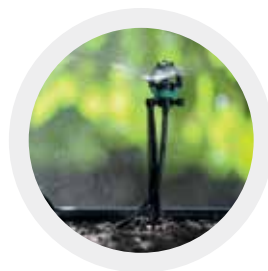
## WHITE IRRIGATION LDPE PIPES

- ◆ Reflects light
- ◆ Prevents algae and bacteria growth
- ◆ Primarily used in greenhouses



## ON-LINE DRIPPERS

- ◆ Greenhouses with irregular plant spacing
- ◆ Easy cleaning
- ◆ High reliability precision, and efficiency, minimizing clogging problems



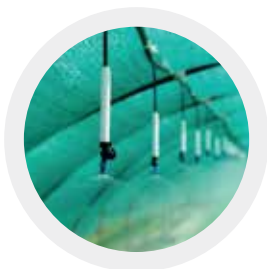
## MICRO SPRINKLER SYSTEM

- ◆ Irrigation, cooling, and frost protection for orchards
- ◆ Delivers a uniform spray pattern at a low angle for under tree applications
- ◆ Built-in anti-insect device



## FILTRATION

- ◆ Hydrocyclone
- ◆ Disc and screen filters (manual, semi-automatic, automatic)
- ◆ Gravel media filters (manual, automatic)



## FOGGERS

- ◆ Greenhouses with irregular plant spacing
- ◆ Easy cleaning
- ◆ High reliability precision, and efficiency, minimizing clogging problems



## FERTIGATION

Fertigation systems appropriately dose the quantity of fertilizer necessary for the crop. No waste of expensive chemicals, labor, and machinery. No uncontrolled pollution, unnecessary soil compression, and crop damage.

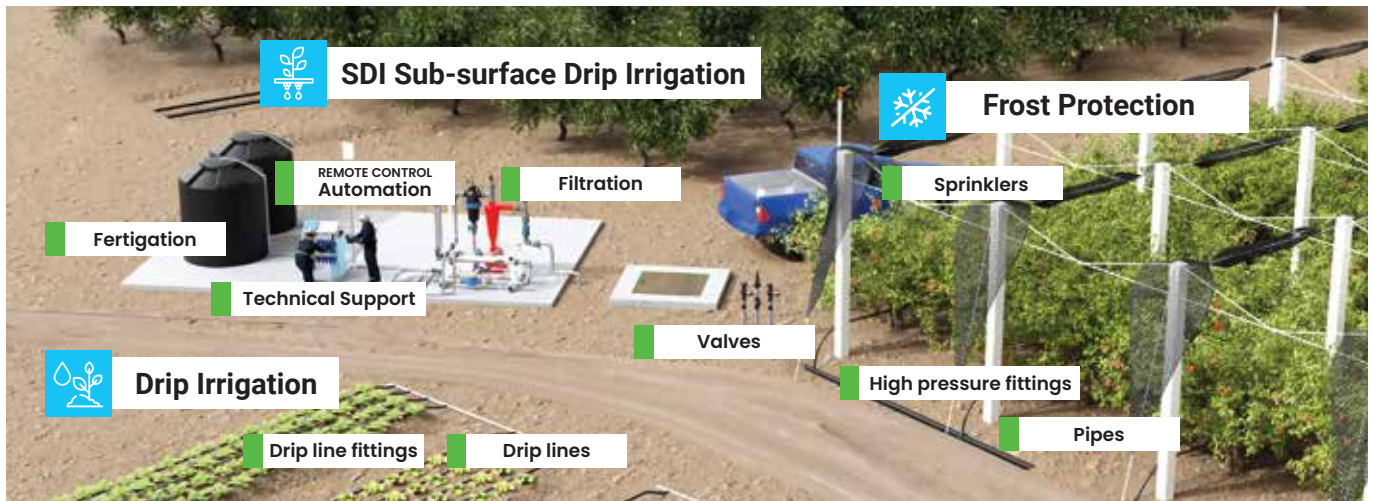


## AUTOMATION

Wide range of controllers for irrigation and fertilization control. Configurable and with multiple possibilities of use, communication, and extension. Equipped for irrigation control, fertilization, pumping, and filter cleaning, with fault detection and detailed chronological recording of events and historical accumulation.



# Turn-Key Irrigation Solutions



## From Design to a First Crop

The experts from Poliext bring the know-how and modern technologies in irrigation systems for orchards, field crops, and protected crops, capabilities in projects execution, including experience in design and implementation of projects.

We use our knowledge and solution-based precision irrigation to help crop farmers achieve higher yields and better-quality crops, save time and money, minimize product waste. Irrigating is a complex task that depends on your region and soil type in your field.

Poliext irrigation experts design, develop and implement a custom irrigation system according to your specific requirements.

## Everything you need to get your irrigation project started.





# Garden & Landscape Irrigation Solutions



The professionally installed system provides stress-free lawn care. Our irrigation solutions never forget to water, providing plants, grass, flowers, and lawns the right amount of irrigation necessary for healthy growth, using advanced timers and sensors.

We offer a whole range of quality and reliable products to keep the turf in top condition for years, ideal for commercial buildings, sports fields, or home gardens. Expert planning and proper maintenance of the irrigation system are crucial to ensure the uniform application of water in turf areas.



## POP-UP SPRINKLER IRRIGATION

Pop-up sprinkler systems are ideal for many different types of gardens and are used primarily for watering turf areas, but also for watering flowers and low vegetation.

To get the job done efficiently and save energy and water resources, expert and professional planning is necessary.



## SDI SUB-SURFACE DRIP IRRIGATION

Subsurface drip irrigation is a low-pressure, high-efficiency irrigation system that uses buried driplines with extra root protection to meet crop water needs.

Subsurface irrigation saves water and improves yields or turf by eliminating surface water evaporation and reducing the incidence of weeds and disease.





## Get your project a good start



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