

# LOW TUNNEL

## *CROP PROTECTION SYSTEM*



### **ENHANCING CROP PRODUCTIVITY AND PROTECTION**

The BLUSTAL Low Tunnel Crop System represents a cutting-edge and environmentally conscious approach to crop cultivation. Developed with the aim of optimizing plant growth and increasing agricultural productivity, BLUSTAL utilizes advanced technologies and innovative materials to create an ideal microclimate for crops. In this write-up, we will explore the key features and benefits of the BLUSTAL Low Tunnel Crop System, along with its potential to revolutionize sustainable agriculture.



## Benefits of a Low Tunnel Crop System

1. **Extended Growing Season:** One of the main advantages of a low tunnel crop system is its ability to extend the growing season. By creating a controlled microclimate, these tunnels protect crops from frost and cold temperatures, enabling farmers to start planting earlier in the spring and extend harvests later into the fall.
2. **Improved Crop Quality and Yield:** The controlled environment inside the low tunnels allows for better control over temperature, humidity, and other environmental factors. This results in higher-quality produce and increased crop yields compared to traditional open-field cultivation.
3. **Pest and Disease Management:** Low tunnels act as a physical barrier, preventing pests and animals from directly accessing the crops. This helps reduce the need for chemical pesticides and, in turn, promotes healthier and more sustainable farming practices.
4. **Water Conservation:** The enclosed environment of a low tunnel crop system reduces water evaporation, leading to improved water efficiency. Additionally, the tunnels protect crops from heavy rainfall, preventing waterlogging and soil erosion.
5. **Protection Against Extreme Weather:** Low tunnels shield crops from extreme weather events like hailstorms and high winds, minimizing potential damage and ensuring a more stable and reliable crop output.



## Components of a Low Tunnel Crop System

1. **Tunnel Frame: The Strong Foundation:** The tunnel frame serves as the backbone of our low tunnel crop system. We take great pride in offering the Best Quality Fiber Hoop Sticks, renowned for their exceptional strength, flexibility, and economic pricing. Unlike traditional Iron Rods, these Fiber Hoop Sticks are rust-resistant, ensuring longevity and enduring performance.
 

**Key Benefits:**

  - Unparalleled Strength: Our Fiber Hoop Sticks provide robust support, capable of withstanding diverse weather conditions and agricultural demands.
  - Remarkable Flexibility: The sticks' flexibility allows for easy installation and adjustments, adapting to your crop's specific needs.
  - Cost-Effective: Embrace an economical choice that maximizes value and minimizes maintenance expenses.
2. **Fabric: Superior Protection** Our low tunnel crop system features High-Quality 17Gsm and 23Gsm Non-Woven UV Stabilized breathable Fabric for covering. This top-notch fabric provides essential protection for your crops, creating an ideal microclimate that encourages healthy growth and shields against adverse environmental factors.
 

**Key Benefits:**

  - UV Stabilized: The fabric's UV stabilization enhances its durability, making it resistant to sun damage and ensuring prolonged use.
  - Breathable: Allow optimal airflow and ventilation, preventing excess humidity build-up and reducing the risk of diseases.
  - Enhanced Crop Health: The fabric's UV resistance and breathability promote healthier plant growth and improved crop quality.



3. **Clips: Secure and Dependable** Our low tunnel system includes UV Stabilized Plastic Clips, specially designed to securely fix the fabric to the tunnel frame. These clips provide a reliable and sturdy connection, keeping the fabric taut and intact even during harsh weather conditions.

**Key Benefits:**

- UV Stabilized: The clips' UV stabilization prevents degradation due to sun exposure, maintaining their integrity over time.
- Easy Installation: Effortlessly attach and adjust the fabric with these user-friendly clips, ensuring a hassle-free setup.
- Long-Lasting Performance: The UV stabilization ensures that the clips withstand prolonged exposure to sunlight, contributing to their longevity.

4. **Thread: Connecting with Precision** Our low tunnel crop system includes UV Thread, ensuring a strong and secure connection between the tunnel frame and fabric. This UV-resistant thread provides added durability and stability to the overall structure.

**Key Benefits:**

- UV Resistant: The thread's UV resistance prevents degradation, ensuring it remains intact under sunlight exposure.
- Reliable Support: The thread reinforces the connection points, enhancing the tunnel system's structural integrity.
- Longevity: Count on the UV Thread for lasting performance, even in challenging weather conditions.

Embrace our meticulously crafted components to elevate your low tunnel crop system and experience the unparalleled benefits they bring. From robust tunnel frames to protective fabric, secure clips, and durable thread, our components are designed to optimize crop growth and protect your agricultural investment



Clips



Thread



Non- woven  
Fabric



Fiber Hoop  
Sticks



## Best Practices for Successful Implementation

1. **Crop Selection:** Choose crops that are well-suited for low tunnel cultivation. Leafy greens, root vegetables, and certain fruits like strawberries and tomatoes tend to thrive in this system.
2. **Proper Site Selection:** Select a location with good sunlight exposure and sufficient drainage to prevent waterlogging.
3. **Installation and Maintenance:** Ensure the tunnels are securely anchored to withstand strong winds. Regularly inspect and maintain the tunnels to address any tears, holes, or structural issues.
4. **Temperature Monitoring:** Use thermometers inside the tunnels to monitor temperature variations and make necessary adjustments to avoid overheating or chilling the crops.
5. **Crop Rotation:** Practice crop rotation to prevent soil depletion and reduce the risk of disease build-up.
6. **Harvesting and Ventilation:** Open the tunnels during sunny days to allow for pollination and to prevent heat stress. Remember to close them in the evenings to retain warmth.



The low tunnel crop system is an excellent addition to modern farming practices, offering numerous benefits for growers and the environment alike. By extending the growing season, protecting against adverse weather, and promoting sustainable agricultural practices, low tunnels have the potential to significantly enhance crop productivity. Proper planning, implementation, and maintenance are essential for a successful low tunnel crop system that maximizes yields and ensures sustainable, high-quality produce.

