

吉林省朝鸣工程设备有限公司

Jilin Chaoming Engineering & Equipment Co., Ltd

# AGRICULTURAL GREENHOUSE

JCEC

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# 01

## **Company Introduction**

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# Company Introduction

## Enterprise profile



Jilin Chaoming Engineering Equipment CoLtd.(JCEC), a Chinese company registered in China and as a member of the Nasr Corporation Group, We work with a number of domestic agricultural greenhouse design, processing, construction and agricultural intelligence equipment research and development, production of high-tech Enterprises.

# Company Introduction

## Factory



# Company Introduction

## Purpose

Help customers maximize their value!

- Greenhouse materials for sale

Strictly control products,would rather reduce profits,not reduce quality.

The materials used by our company are all of high quality and higher than the industry standards. The processing technology is fine and the quality is reliable. It can really reassure customers. Moreover, the advanced management methods and brand reputation are unparalleled by other greenhouse companies. The company has a strict supervision system, from pre-design to follow-up processing, from feed to material, step by step, step by step, layer by layer inspection, layer by layer to ensure that all projects are carried out in accordance with the design, without shrinkage, jerry-building. Adhere to only do quality works.

# Company Introduction

- Construction Technicians Output

We have China's first-class construction team, not only can help customers build bases, but also can send engineers to guide customers to build their own, to ensure the smooth progress of the project.



Engineer directs construction in Brosetch Romania



Engineer directs construction in Bucharest, Romania



Engineer directs construction in Tajikistan



Engineer directs construction in Azerbaijan

# Company Introduction

- Planting Technician Output

Due to the lack of effective management, lack of agricultural machinery personnel, improper fertilization and other issues some customers have poor vegetable benefits.

In view of this situation, our company upholds the belief that "client success is our success", which not only helps customers to build a good base but also pays more attention to helping customers to plant a good base. The company has set up a number of professional agricultural technical team, sent to various bases to help customers planting, to solve the problem of planting.



Technicians guide planting in Guinea



Technicians guide planting in Tajikistan



Technicians guide planting in Vietnam



Technicians guide planting in Korea

# Company Introduction

## International Business



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# 02

## **Business Scope**

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# Business Scope



## Planning Section

Overall Planning

Detailed rules for conceptual planning and construction

Research report

Strategic Consultation of Agricultural Enterprises



## Construction Section

Greenhouse facility engineering

Landscape agriculture engineering

Ecological leisure project

Livestock and Poultry Husbandry Project

Intelligent Agriculture Engineering



## Technical Section

Project Technical Services

Advanced cultivation model

Introduction of improved varieties

Planting technique output

Agricultural technical training



03

# **Product Introduction**

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# Product Introduction

## Construction of greenhouse structure:

Intelligent Glass Greenhouse (Dutch greenhouse, Wenluo greenhouse) , solar plate greenhouse, film multi-span greenhouse, solar greenhouse greenhouse, photovoltaic greenhouse, design and construction of horticultural greenhouse, Flower Market greenhouse, seedling greenhouse, new high temperature greenhouse, steel structure workshop and so on.

## Upplies:

Steel frame of greenhouse, aluminium profile of greenhouse, transmission system of greenhouse, sunshade net, toughened glass, PC Sun Board, film, quilt, soilless cultivation plant frame and hydroponic pipe, sprinkler irrigation equipment, water and fertilizer integrated machine, Internet of things control system, fan, wet curtain, air energy heat pump, boiler, Fan Coil, etc. .

**According to the different needs of customers, to provide targeted design, production services.**

# Product Introduction

## Glass Greenhouse

### Greenhouse structure

- ▲ Hot dip galvanized steel structure with A-shaped ridge.
- ▲ The roof is conventionally made of 5mm single-layer tempered glass or 8mm polycarbonate hollow sheet and the fourweek covers are made of 5+6A+5 float hollow tempered glass, which can be float.



# Product Introduction

## Glass Greenhouse

### Greenhouse characteristics

- ▲ Solved the contradiction between heat preservation and light transmission in greenhouse;
- ▲ Keep warm in winter.
- ▲ Unique glass sealing structure completely solves the problem of roof leakage.
- ▲ Glass greenhouse has the advantages of beautiful appearance, good light transmission, good display effect, long service life, etc. It is suitable for low light and geothermal energy. And the waste heat of the power plant, the glass greenhouse is a better choice.

Bring this type of greenhouse can realize full automatic control, supporting equipment can choose heating system (hot air blower heating or plumbing heating), sunshade curtain system, Micro fog or water curtain cooling system, CO<sub>2</sub> supplement system, light supplement system, spray, drip irrigation and fertilization system, computer integrated control system, top spray Systems, etc.



# Product Introduction

## Glass Greenhouse

### Technical parameter

Covering material: 5+6A+5 hollow tempered glass (or float)

Span: 6.4m/8.0m/9m/9.6m/10.8m/12m

Eaves height: 3m/4m/4.5m/5.5m/6m/8m, etc

Column spacing: 4m/8m, etc.

Top window: full length or staggered

Side windows: rack window, sliding window, electric vertical sliding window

Supporting facilities: different supporting equipment shall be selected according to the functional requirements of the greenhouse.



## Greenhouse structure

It adopts hot galvanized light steel structure and A-shaped roof, which can be divided into a span of 2 spires, a span of 3 spires and a span of 4 spires.



## Greenhouse characteristics

- ▲ One span with multiple spires. The greenhouse has the characteristics of small roof, multiple Gutter and large span. The partition can be flexibly set inside.
- ▲ Daylighting has good performance and uniform indoor lighting.
- ▲ It has strong drainage capacity and can be built in large areas.
- ▲ Aluminum alloy profiles or special link seals are linked and sealed, with beautiful appearance.
- ▲ It has the function of preventing fog from dropping on the ground. A fog collecting tank is arranged under the open Gutter, which can collect dew and then lead it to the end of the greenhouse for elimination, thus reducing the occurrence of diseases and insect pests.
- ▲ The heat preservation and energy saving effect is better than that of single-layer glass. It can save a lot of fuel in winter, but its light transmittance is poorer than that of single-layer glass.
- ▲ The interior is spacious and bright, with large operation space and high utilization rate of greenhouse.



# Product Introduction

# Venlo Sunboard Greenhouse

## Technical parameter

Covering material: top PC board or wave board, four week PC board or other covering.

Span: 6.4m/8.0m/9.6m/10.8m/1m/12.8/16.0m.

Eaves height: 3.0m-8.0m, etc.

Column spacing: 4.0m/8.0m etc.

Top windows: staggered windows, one-sided windows and long-span windows at roof ridges

Side windows: rack window, sliding window, electric vertical sliding window.

Supporting facilities: different supporting equipment shall be selected according to the functional requirements of the greenhouse.



# Product Introduction

## Vault PC Board Greenhouse

### Vault PC board greenhouse

- ▲ Hot dip galvanized light steel structure with curved top.
- ▲ The top is covered with polycarbonate hollow board (PC), and the four week can be covered with PC board or other materials.



# Product Introduction

- ▲ Use the stability of triangle crossing to construct greenhouse framework and achieve the best structural stability.
- ▲ Use the spherical structure of curved surface to form the overall tension and realize the maximization of local resistance.
- ▲ Space trusses and honeycomb-shaped stretching are adopted to realize several times increase of the greenhouse's pressure-bearing and wind-resistant capacity. The average load of each connection point of the greenhouse is more than 180 kg, which is incomparable to ordinary greenhouses. This is also the key technology of snow resistance and pressure resistance.
- ▲ The shape of the sphere greenhouse has the greatest resistance to wind. Any angle of wind attack can be eliminated. It has the smallest windward flour and can resist more than ten strong winds. It is currently the most wind-resistant geometric sphere greenhouse in the world.
- ▲ The space is high and spacious, which is convenient for three-dimensional farming. It can realize the maximum utilization and biotransformation of effective solar radiation and realize the farming efficiency of 5 mu per mu.

## Nest Greenhouse



# Product Introduction

## Full Steel Frame Arch Shed

▲ The whole steel frame arch shed adopts galvanized steel frame assembly structure, with the main truss spacing between 0.8-1.2m and height of about 3.2m. It is convenient to build and install. Because there is no pillar support in the shed, the Daylighting effect in the shed is greatly improved, which is beneficial to mechanized operation and improves the land.

▲ Such greenhouses are generally suitable for planting in the south and the north in spring, summer and autumn.



# Product Introduction

## Sunlight Greenhouse

- ▲ Large span non-column structure, spacious space, suitable for mechanized work ;The skeleton has strong bearing capacity and long service life;
- ▲ Roof lighting has a reasonable angle and sufficient indoor lighting.Good thermal insulation performance and obvious energy saving effect.
- ▲ Computer Optimization Design, lighting Good, Material Saving,Low cost and high land utilization rate;
- ▲ Composite thermal insulation wall,internal The Wall thermal insulation external wall heating,it is easy to form a good microclimate in the shed.
- ▲ Use insulation quilt, straw curtain insulation and electric coil in winter Curtain rolling.
- ▲ Suitable for flower planting, seedling breeding and vegetable growing, Widespread application of production and sightseeing demonstration parks;



# Product Introduction

Crop genetic improvement and  
germplasm innovation laboratory



It mainly carries out research on innovation, application and breeding of new variety of excellent germplasm resources of 6 series of facility special melon and fruit vegetables(including pepper, tomato, eggplant,cucum-ber, melon and watermelon).

# Product Introduction

Crop growing and water  
and fertilizer research laboratory



It mainly implements the high-quality and high-yield cultivation model of soilless culture, scheme of integration of water and fertilizer, environmental control scheme, plant protection scheme, crop nutrition monitoring and water and fertilizer detection as well as provides the technical support for crop nutrition, water and fertilizer management, climate management, water and fertilizer detection and nutrition monitoring.

# Product Introduction

## Soilless culture



Soilless cultivation uses no soil to cultivate plants with other objects including water fog(gas) cultivation and substrate cultivation. Soilless cultivation can avoid diseases insect pests and continuous cropping obstacles. Compared with soil cultivation soilless cultivation has the characteristics of reducing the amount of pesticides improving crop yield and quality, saving fertilizer, labor and water, and is not restricted by soil fertility. It fixes the roots of crops in organic or inorganic substrates and supplies nutrient solution to crops by drip irrigation or fine-flow irrigation under soilless cultivation. The cultivation medium can be packed in plastic bags or laid in cultivation ditches or troughs. Soilless cultivation has strong buffer capacity, no contradiction between water nutrients and oxygen supply and the equipment is simpler than hydroponic and aerosol cultivation. It does not even need power has less investment, low cost, is not afraid of repeated cropping, and makes full use of nutrition.

# Product Introduction



## Soilless culture



Soilless culture uses other things instead of soil. The method of plants includes water culture, fog (air)culture and substrate culture. In soilless culture, artificially prepared culture solution is used to supply plant mineral nutrition. Soilless cultivation is a kind of cultivation that uses plants instead of natural soil. Nutrient solution containing essential elements for long-term development provides nutrition and enables plants to normally complete the whole process. Cultivation Techniques in Life cycle. In soilless culture technology, Providing a nutrient solution with coordinated proportion and proper concentration is the key to successful cultivation.

# Product Introduction

## System function

Spira pipe cultivation uses PVC pipes to form a double helix model, installation of drip irrigation system in pipeline can provide nutrients and water for crops thus realizing the soilless cultivation mode of stereo planting. The nutrient solution of this mode flows down the pipeline and returns to the waste liquid pool, after treatment, the nutrient solution can be reused. It can save water and fertilizer. Double helix cultivation device can make full use of space and light for crops. This model can be used to grow leafy vegetables or small fruit vegetables. It is suitable for vegetable production in agricultural parks and ornamental cultivation in urban agricultural sightseeing gardens and ecological restaurants.



## Soilless culture

Vertical 3D cultivation is carried by erected cultivation tanks, making planting develop spatially. Thus, the planting and harvesting amount per unit plane can be greatly increased. Give Full Pay to the Production Potential of Limited Ground, it is the Resource-saving agriculture and efficient agriculture.



# Product Introduction



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# 04

## **Case Presentation**

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# Case Presentation



# Case Presentation



# Case Presentation

## ★ Anhui Mengcheng Xingnong Green Port Modern Agricultural Science and Technology Industrial Park

**1、 Project Address:** Intersection of East Outer Ring Road and Yongxing Road, Mengcheng County, Anhui Province

**2、 Investment Scale:** Total investment of 800 million RMB

**3、 Time To Build:** August 2021

### **4、 Project Introduction:**

The project is divided into two phases, the first phase to create a whole vegetable industry chain as the goal, the total investment of about 310 million yuan, covers an area of about 800 mu.

The second phase of the project aims to build a regional tea tree mushroom industry chain, with an investment of 500 million yuan, relying on the " 1 + X " model of Xingnong Green Port. The factories in the food industry park of the development zone mainly focus on strain breeding, rod processing, factory mushroom production, drying, drug eXtraction and food deep processing. Covers an area of about 300 acres.

# Case Presentation



# Case Presentation



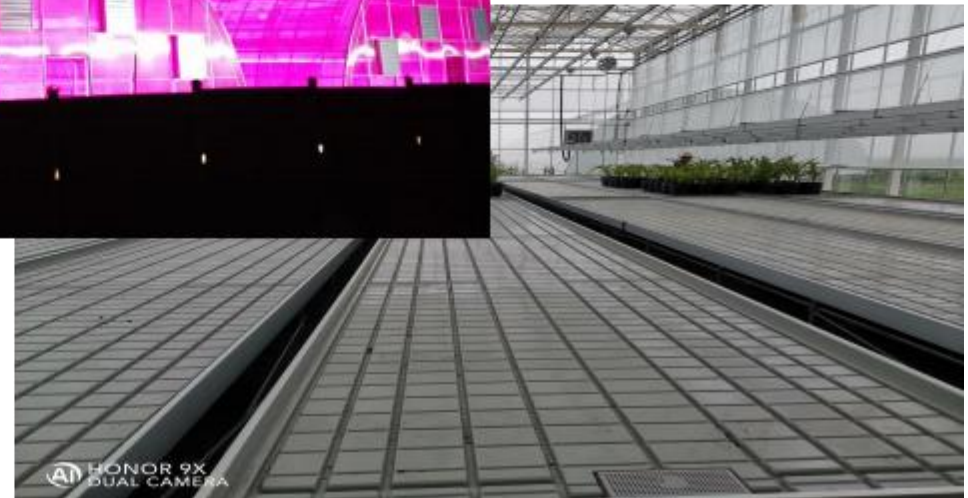
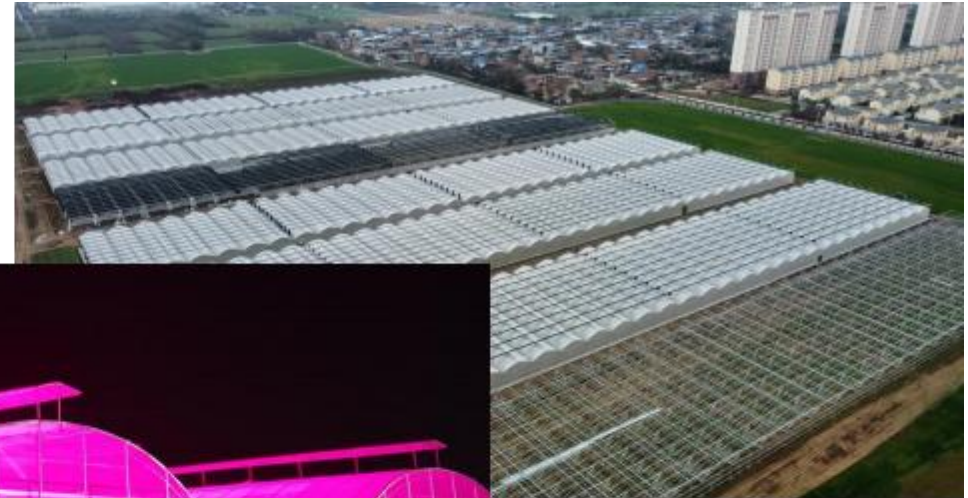
# Case Presentation

## Greenhouse Case — Planting Greenhouse of Central Guard Bureau



# Case Presentation

## Greenhouse Case



# Case Presentation

## Greenhouse Case — Greenhouse of National Agricultural Park



# Case Presentation

## Planting case



# Case Presentation

## Planting case





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