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温室工程
Greenhouse Engineering

联系我们 CONTACT US

地址：山东省青州市黄楼街道巨龙工业园
ADD：Huanglou Town, Qingzhou City, Shandong Pro., CN
电话/TEL：+86 13188838934 +86 18663633168
邮箱/Email：2768105694@qq.com dredgerchina@aliyun.com
网址/Web：www.julonggreenhouse.com

巨龙农业装备有限公司
JULONG AGRICULTURAL EQUIPMENT CO., LTD.

企业简介 Company Profile

巨龙农业装备有限公司位于山东青州——著名的北方花卉之都。公司依靠先进实用的工程管理经验与雄厚的技术支持，现已成为专业化从事设施农业工程设计、生产、安装、销售、售后服务于一体的温室企业。公司可定制花卉市场温室、种植温室、养殖温室、观光温室、科研温室、光伏温室、球形温室、玻璃温室、阳光板温室、薄膜温室等几十种温室。也可设计制造最基本型及现代化的自动控制温室，还可提供内外遮阳系统、温室结构配件等。

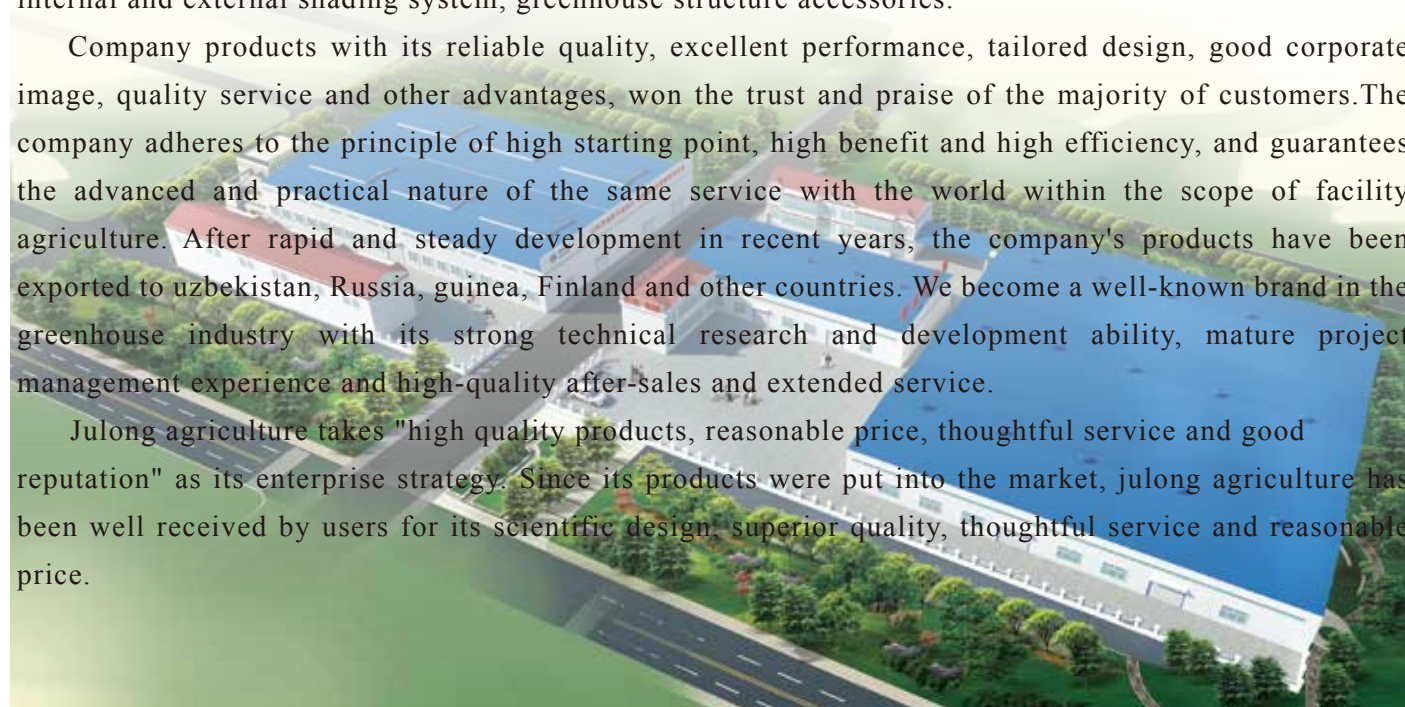
公司产品以其可靠的质量、卓越的性能、因地制宜的设计方案、良好的企业形象、优质的服务等优势，赢得了广大客户的信赖和好评。公司秉承高起点、高效益、高效率的原则，在设施农业范围内都保证与世界同等服务的先进性与实用性。经过近几年高速稳健的发展，公司产品已经远销东南亚、东亚、南亚、欧洲、南美等多个国家。我们以其雄厚的技术研发能力、成熟的项目管理经验和优质的售后及延伸服务成为温室行业的知名品牌。

巨龙农业以“优质的产品、合理的价格、周到的服务、良好的信誉”为企业战略，公司产品自投放市场以来，以其科学设计、质量优越、服务周到、价格公道而深受用户的好评。

Julong agricultural equipment co., ltd is located in the famous flower capital of the north -- qingzhou, shandong province. Relying on advanced and practical engineering management experience and strong technical support, the company has become a specialized greenhouse enterprise engaged in the design, production, installation, sales and after-sales service of facility agricultural engineering. The company can customize flower market greenhouse, planting greenhouse, breeding greenhouse, ecological greenhouse, glass greenhouse, sunshine board greenhouse, film greenhouse and greenhouse accessories. Also can design and manufacture the most basic and modern automatic control greenhouse, but also can provide internal and external shading system, greenhouse structure accessories.

Company products with its reliable quality, excellent performance, tailored design, good corporate image, quality service and other advantages, won the trust and praise of the majority of customers. The company adheres to the principle of high starting point, high benefit and high efficiency, and guarantees the advanced and practical nature of the same service with the world within the scope of facility agriculture. After rapid and steady development in recent years, the company's products have been exported to uzbekistan, Russia, guinea, Finland and other countries. We become a well-known brand in the greenhouse industry with its strong technical research and development ability, mature project management experience and high-quality after-sales and extended service.

Julong agriculture takes "high quality products, reasonable price, thoughtful service and good reputation" as its enterprise strategy. Since its products were put into the market, julong agriculture has been well received by users for its scientific design, superior quality, thoughtful service and reasonable price.



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智能玻璃温室 Glass Greenhouse

技术参数 Technical Specification

覆盖材料：4+9+4、5+6+5、5+9+5 浮法单层玻璃或中空玻璃（或钢化）

跨度：6.4m/8.0m/9.0m/9.6m/10.8m/12m

檐高：3m-9m等

柱间距：4m/8m

顶窗：通长或交错

侧窗：齿条外翻窗、推拉窗、电动垂直推拉窗

配套设施：根据温室功能需要选用不同的配套设备



Cover materials 4+9+4、5+6+5、5+9+5 float single layer glass or hollow glass (or tempered).

Span : 6.4m/8.0m/9.0m/9.6m/10.8m/12m.

Eaves height : 3m-9m etc.

Column space : 4m/8m.

Top window : long or staggered.

Side window : rack out-tuning window, sliding window, electric vertical push-pull window.

温室结构 Greenhouse Structure

采用热镀锌轻钢结构，A字型屋脊。

四周覆盖材料采用4+9+4、5+6+5、5+9+5浮法单层玻璃或中空玻璃，玻璃可完全钢化，顶部覆盖5mm钢化玻璃。

Hot dip galvanized steel structure, A type dip roof.

Roofing and covering materials 4+9+4、5+6+5、5+9+5 float single layer glass or hollow glass, glass can be completely tempered. Top covered 5 mm tempered glass.



温室特点 Greenhouse Characteristics

解决了温室保温和透光的矛盾。

冬季保温好。

独特的玻璃密封结构，彻底解决了屋面漏水问题。

玻璃温室具有外形美观、透光性好、展示效果佳、使用寿命长等优点，对于低光照、并有地热能源和电厂余热的地方，玻璃温室是较好的选择。玻璃温室非常适合长江中下游流域。

该类型温室可实现全自动控制，配套设备可选择加热系统（热风机加热或水暖加热）、遮阳幕系统、微雾或水帘降温系统、CO2补充系统、补光系统及喷、滴灌和施肥系统、计算机综合控制系统、顶喷淋系统等。

Solve the contradiction between greenhouse heat preservation and light transmission.

Good insulation in winter.

Unique glass sealing structure , completely solve the problem of roof leakage.

Glass greenhouse has the characteristic of beautiful appearance, good light transmission, good display effect, long service life and so on. For place with low light, and geothermal energy and power plant waste heat, glass greenhouse is a better choice. Glass greenhouse is very suitable for the middle and lower reaches of the yangtze river basin.

This type of greenhouse can realize the full automatic control, it can choose the heating system (heating or hot water heating), shading screen system, fog or water curtain cooling system, CO2 system, lighting system and spray and drip irrigation and fertilization system, computer control system, roof sprinkler system and so on.



文洛式PC板温室 Venlo Polycarbonate Greenhouse

温室结构 Greenhouse Structure

采用热镀锌轻钢结构，A字型屋脊。
Hot galvanized steel structure.

技术参数 Technical Specification

覆盖材料：顶部8mm-12mm阳光板，四周阳光板或其他覆盖

跨度：9.6m/12m

檐高：3m-8m

柱间距：4m/8m

顶窗：屋脊处交错开窗、单侧开窗、通长开窗

侧窗：齿条外翻窗、推拉窗、电动垂直推拉窗

配套设施：根据温室功能需要选用不同的配套设备



Cover materials : top 8mm-12mm polycarbonate panel. There are PC panel around or other material.

Span : 9.6m/12m

Eaves height : 3m-8m

Column space : 4m/8m

Top window : Staggered windows at the ridge, One-sided window opening, Open window.

Side window : rack out-tuning window, sliding window, electric vertical push-pull window.

Supporting facilities : choose different equipment according to the greenhouse function needs.



温室特点 Greenhouse Characteristics

一跨多尖顶，温室具有小屋顶，多天沟，大跨度等特点，内部可灵活的设置隔断。

采光性能好，室内光照均匀。

有很强的排水能力，可大面积连栋。

铝合金型材或专用链接密封件链接密封，外形美观漂亮；具有防滴雾功能，在开天沟下设置结露水收集槽，可以将结露水收集后导到温室端部排除。减少病虫害的发生。

保温节能效果比单层玻璃好，冬季可节省大量燃料，但透光性比单层玻璃相比较差。

内部宽敞明亮，操作空间大。温室利用率高。

multi gable in one span, the greenhouse has the feature like small roof, multi gutter, large span, The partition can be designed inside flexible according to client.

Good lighting performance, uniform illumination indoor.

The drainage capacity is very strong, can be largely union built.

Aluminum alloy profiles or specialized hinge connection sealer, beautiful appearance.

With anti fog function drops . It has the function of anti-dripping, the dripping water can be collected by the groove blew the gutter, which can reduce the occurrence of pests and diseases.

The heat preservation and energy saving effect is better than that of the single layer glass, and a large amount of fuel can be saved in winter, but transparency is a little worse .

The internal is spacious and bright, the operating space is large, and the utilization rate of the greenhouse is high.



弧形PC板温室 Dome PC Board Greenhouse

温室结构 Greenhouse Structure

采用热镀锌轻钢结构，弧形顶顶部采用聚碳酸酯中空板(PC)覆盖，四周可选用PC板或其他材料覆盖。

Hot dip galvanized steel structure, The top covered with polycarbonate hollow board (PC), The four sidewall can be covered by PC board or other material .



技术参数 Technical Specification

覆盖材料：顶部PC板、四周PC板、玻璃或其他覆盖

跨度：9.6m/12m

檐高：2.5m-8.0m(可根据用户要求进行变化)

柱间距：4.0m

顶窗：通长齿轮条开窗，使用弧形齿轮、弧形齿条

侧窗：齿条外翻窗、推拉窗、电动垂直推拉窗

配套设施：根据温室功能需要选用不同的配套设备



Cover material : top PC board, PC board, glass or other cover.

Span : 9.6m/12m

Eaves height : 2.5m-8.0m(Can be various according to customers' own need)

Column space : 4.0m

Top window:A long gear window, using arc gear, arc rack.

Side window:rack out-tuning window, sliding window, electric vertical push-pull window.

Supporting facilities:choose different equipments according to the greenhouse function.



温室特点 Greenhouse Characteristics

弧顶更有利于雨水和积雪的下滑，减低风阻，提高了温室的抗载能力；减少结露下滴，降低了由于湿度过大而引发病菌的发生率。

温室顶部开设天窗,顺应了热空气的流动方向，有利于空气的流动和热量的散失，有助于夏季降温除湿。

配有大流量的天沟。

大跨度，大柱间距，高大的类型可广泛作为生态餐厅，休闲观光温室和大型花卉市场使用。

顶部覆盖可采用双层碳酸酯中空板。双层天沟，有效防止接露水。且降低冬季升温能耗。

The arch design can make the rain and snow falling easily, reducing the wind resistance, so the greenhouse anti-load ability will improve a lot. The dew drip will be less and the occurrence of germs and bacteria will be lowered.

The roof is equipped with the ventilation window, conforming to the direction of flow of hot air, which is good for the flow of the air and dissipation of heat. In summer, the temperature and humid can be controlled.

With the flow of the gutter

Large span, large column spacing, tall type can be widely used as eco restaurant, leisure and sightseeing greenhouse and large flower market.

The double layer polycarbonate sheet can be used as the roof covering, double gutter, efficiently preventing the dew, and reduce winter heating energy consumption.



连栋薄膜温室 Multi-span Plastic Film Greenhouse

单拱单膜温室技术参数

Single Arch Single Membrane Greenhouse Technical Parameters

覆盖材料：顶部覆盖12-15丝po膜；四周覆盖po膜、玻璃、阳光板

跨度：9.6m/12m

檐高：2.2m-6.0m(可根据用户要求进行变化)

柱间距：4.0m

顶窗：通长齿轮条开窗

侧窗：齿条外翻窗、推拉窗、电动垂直推拉窗、卷帘

配套设施：根据温室功能需要选用不同的配套设备



Cover material: top PC board, PC board, glass or other cover.

Span: 9.6m/12m

Eaves height: 2.5m-8.0m(Can be various according to customers' own need)

Intercolumniation: 4.0m

Top window: A long gear window, using arc gear, arc rack.

Side window: rack out-tuning window, sliding window, electric vertical push-pull window.

Supporting facilities: According to the greenhouse function need to choose different equipments.



双拱双膜温室特点

Double Arch Double Membrane Greenhouse Characteristics

双拱双膜能有效的防止热量流失和阻止冷空气的流动和热量的散失，有助于夏季降温 and 除湿。

拱顶更有利于雨水和积雪的下滑，降低风阻，提高了温室的抗载能力；减少结露下滴，降低了由于湿度过大而引发病菌的发生率。

单层膜温室用户可根据实际需要和天气情况灵活选择，侧卷帘的开启数量和高度，从而较好的调节温室内的环境。

针对南方雨量加大的特点，单层膜温室采用大容量天沟，保证雨水及时排放。薄膜温室造价低廉，适用于我国进行大面积推广。



Double arch double membrane can effectively prevent the loss of heat and prevent the flow of cold air and heat dissipation.

The vault is more conducive to the falling down of rain and snow . reduce wind resistance , improve the anti load capacity of the greenhouse; reduce the dew drops, reducing the incidence of pathogens caused by excessive humidity .

Single layer film greenhouse users can choose according to the actual needs and weather conditions, the number and height of the side of the shutter, so as to better regulate the greenhouse environment.

Considering the heavy rain of south area, the single-layer film greenhouse is equipped with the large volume gutter to guarantee the rain can be discharged in time.

The plastic film greenhouse is in low cost and can be widely used in our country.



日光温室 Sunlight Greenhouse

日光温室抗压，抗风雪，跨度、弧度、高度、长度可按需要进行设计生产，日光温室大棚棚内温度不分季节均可达到您所需要的理想温度，可机械化作业、运输车辆出入方便。

The greenhouse has good function of anti-pressure, anti-wind and snow. The span, curvature, height and length can be designed and manufactured according to your needs. The temperature can be set at the ideal degree as you demand in sunlight greenhouse regardless of the season. And it can be mechanically operated and vehicles are convenient to move in and out.

技术参数 Technical Specification

骨架材料：普通钢管焊接方式、热镀锌钢管焊接式、热镀锌钢管装配式、“几”字型钢管装配式、扁圆管装配。



骨架结构：立柱式、全钢架式

覆盖材料：双拱双膜覆盖、单层膜覆盖、玻璃、PC板

保温设施：复合保温被+复合保温体+土墙+砌砖。

规格：8m / ~ 16m等

配套设备：根据温室功能需要选用不同的配套设备

Frame materials: ordinary steel pipe welding, welding of galvanized steel, hot galvanized steel pipe assembly, “几” shape steel tube assembly, oval tube pipe assembly.

Frame structure: pillar type, full steel frame type

Covering material: double arch double membrane covering, single layer film covering, glass, PC board.

Insulation facilities: insulation quilt+insulation wall body+cob wall+brick.

Specification: 8m / ~ 16m etc.

Supporting facilities: Choose different equipment according to the function of greenhouse.



温室特点 Greenhouse Characteristics

大跨度无柱结构，空间宽敞，适合机械化作业。
骨架承载能力强、寿命长。

屋面采光角度合理，室内光照充足，保温性能好，节能效果明显。

计算机优化设计、采光好、用料省、造价低、土地利用率高。

复合式保温墙体，内墙保温外墙加热，易于形成良好的棚内小气候。

冬季使用保温被，草帘保温，电动卷帘机卷放。

适合于花卉种植、种苗繁育、蔬菜生产、观光示范园区的广泛应用。

Large span column free structure, large space, suitable for mechanized operation.

Skeleton bearing capacity, long using time.

Roof lighting angle is reasonable, adequate indoor lighting, insulation performance is good, energy saving effect is obvious.

Computer optimization design, good lighting, material saving, low cost, high land utilization.

Composite insulation wall, internal wall thermal insulation wall heating, easy to form a good greenhouse microclimate.

The winter heat preservation, heat insulation mat, electric rolling machine rolling.

The utility model is suitable for the wide application of flower planting, seedling breeding, vegetable production and demonstration park for sightseeing.



观光温室 Sightseeing Greenhouse

温室结构 Greenhouse Structure

生态餐厅是现代都市倡导的一种新的休闲理念。是近年来人们对健康饮食的追求和对田园风光的向往而兴起的一种新型餐饮形式。与传统餐厅的功能相比，生态餐厅更加注重人与自然的和谐，人与环境的绿色平衡，是通过现代化智能温室和原生态自然景观的有机融合，营造一种舒适、绿色、健康的就餐环境；并通过温度、湿度的控制，达到室内四季如春。



The ecological restaurant is a new concept of leisure in modern city, a new form of healthy diet in recent years. On the pursuit of a healthy diet and the pastoral yearning and the rise. Compared with the traditional functions of the restaurant, the restaurant should pay more attention to the ecological harmony between human and nature, green balance between human and environment, it is the organic integration of the modern intelligent greenhouse and the original ecological landscape to create a comfortable, green and healthy dining environment through the control of temperature and humidity.



观光型温室等主要用于展览、观赏、普及科学知识或用于大型会议中心、休闲绿屋、等。主要建设在植物园、农业园区、公园、度假村、疗养基地或其他公共场所。其特点是内部设计多样，园林造景艺术融入其中，蓝天、绿树、假山、小桥、流水等不同的景致使人们在繁华、喧闹的都市里如回归田园，彻底放松身心，享受阳光和泥土的芳香以及那一份独特的宁静，在观赏花卉、品位美丽景致的同时感悟人生，体现现代观光农业的魅力。



Sightseeing Greenhouse is mainly used for exhibition, watch, the popularization of scientific knowledge or for large conference center, leisure green room, mainly built in the botanical garden, agricultural parks, parks, resorts, nursing bases or other public places. The interior design is various, the blue sky, green trees, rockery, small bridges, water and other different scenery make people feel relaxed in the busy, noisy cities such as the pastoral, completely relax, enjoy the sunshine and the fragrance of the earth and the unique tranquility. People can enjoy the sight of the ornamental flowers and beautiful scenery at the same time and reflecting the charm of modern sightseeing agriculture.



拱形温室 Arched Greenhouse

全钢架拱棚 Full Steel Frame Greenhouse

全钢架拱棚采用镀锌钢架组装式结构，主桁架间距在0.8-1.2m之间，高度在3.2m左右，建造安装方便，棚内由于无立柱支撑，大大提高了棚内采光效果，利于机械化操作，提高了土地的利用率。

此种温室一般适合南方地区及北方春夏秋季节种植。

该温室制造成本相对较低，属经济型温室，适用于我国大部分地区。



Full steel frame greenhouse adopts galvanized steel frame assembly structure, main truss base between 0.8-1.2m, height about 3.2m, and it is very easy to install, The greenhouse lighting can be improved because there is no frame support. The mechanical operation can improve the rate of land use.

This kind greenhouse very suitable in south area and north area spring, summer and autumn season plant.

This kind greenhouse has low building cost, it belongs economic greenhouse, suits most of china area.



光伏温室 Photovoltaic Solar Greenhouse

温室特点 Greenhouse Characteristics

太阳能光伏大棚温室是一种新型的温室，是在温室的部分或全部向阳面上铺设光伏太阳能发电装置的温室，它既具有发电能力，又能为一些作物或食用菌提供适宜的生长环境。

光伏温室项目是观光农业与设施园艺有机结合的产物，它是集光伏发电、农业观光、农业作物、农业技术、园林景观及文化发展于一体的创新型农业产业。



The photovoltaic solar greenhouse is a new type greenhouse. The part or all of the roof is covered with the photovoltaic solar panel, which can not only generate the electricity, but also can offer the suitable growing environment for some crop and edible fungi.

The photovoltaic solar greenhouse is integration of sightseeing agriculture and facility horticulture. It is a new innovative agriculture industry which integrate the photovoltaic power, agriculture sightseeing, agriculture technology, landscape architecture, culture development.



外遮阳系统 External Shading System

特点 Characteristics

该系统主要作用是夏季的遮阳降温，使阳光漫射进入温室，保证作物免遭强光灼伤，由于阻挡了大量光线的进入，有效减少了温室内部热量的积聚。

抗紫外线、防冰雹，减少对温室顶部的侵害。

根据种植作物的不同，选用不同遮阳率的幕布以满足不同作物对阳光的需求。

遮阳降温：夏天通过闭合幕布能有效的反射掉部分阳光。可使温室温度下降4 ~ 6 。

The main function of the system is shading and cooling in summer . The sunshine is diffused into the greenhouse,protecting the crops from light burns, because lot of light is stopped, the inner heat will not accumulate .

Anti UV, hail-proof, reduce the damage to the top of the greenhouse .

The curtain with different shading rate can be used to meet the requirement for light according to the species of growing crop .

Shade cooling: Part of light can be reflected by closing the curtain in summer, The greenhouse indoor temp can be lowered 4-6 degree.



减速机 Reducer



规格及参数

类型	扭矩 (Nm)	转速 (R/min)	功率 (Kw)	电压 (V)
WJG40-2.6	400	2.6	0.55	3相,380V,50Hz
WJG40-5.2	400	5.2	0.55	3相,380V,50Hz
WJG80-2.6	800	2.6	0.75	3相,380V,50Hz
WJG80-5.2	800	5.2	0.75	3相,380V,50Hz

减速机通过驱动轴带动A型齿轮转动，齿轮带动齿条做直线往复运动，由于齿条与推拉杆连成一体，推拉杆又与活动边型材连接，遮阳网的一端固定在驱动边型材上，因而带动遮阳网实现展开、收拢动作。

The A type pinion is driven by driving shaft of the gear motor. The rack can make linear motion driven by pinion.

The rack is connected with the push-pull rod, the push-pull rod connect the movable profile, one end of the shading net is fixed with the driving profile. So the net can be open and closed by the move of shading net.

内遮阳系统 Inner Shading System

特点 Characteristics

防雾防滴：当闭合内遮阳系统时，温室内形成上下独立的两个空间，能有效的阻止温室内雾气的形成及滴露。

节能保温：冬季和夜间能有效地阻止温室内部热量通过辐射或热交换形式外溢，从而降低能耗，减少温室运行成本。

节约用水：可减少室内作物和土壤水分的蒸发，有效保持空气湿度，减少灌溉用水。

为增加室内的保温效果，可采用双层内遮阳系统。

幕布分为透气型和保温型两种类型，根据需要选用不同类型和遮阳率的幕布。



拉幕齿轮



拉幕齿条



Anti-fogging and anti-dripping: when inner shading system is closed, the greenhouse can form two independent space, and it can effectively prevent dew formation and the mist in the greenhouse.

Energy saving and heat preservation: in winter and at night, it can effectively prevent the heat inside the greenhouse from overflowing through radiation or heat exchange, so as to reduce energy consumption and reduce the operating cost of greenhouse .

Water saving : can reduce the evaporation of indoor crops and soil moisture, effectively maintain air humidity, reduce irrigation water .

In order to increase the indoor thermal insulation effect, double layer inner shading system can be adopted .

Curtain is divided into breathable and insulation type .

加温系统 Heating System

温室供暖锅炉 Greenhouse Heating Boiler

全面避免正压燃烧带来的炉温不均，燃烧不透，烟气四溢，局部烧损等缺陷。正压多级循环换热技术，让换热遍布每个角落，使热交换更完全，更充分。

空气新鲜，温度均匀，可控：舒适温暖的养殖环境。特有双风机前瞻性的设计(节能+备用)。

我公司采用的新型锅炉的炉膛采用耐高温特制铸钢管、无缝管制造而成，本机采用二次加温。热效率高，升温快，热风清洁，半自动控温、安装方便等特点。

To avoid the defect like uneven stove temp, incomplete combustion, exhaust gas overflow, part damage caused by the positive pressure combustion, Use the multi-level heat recycling technology, the heat can be exchanged completely .

The air is fresh, the temperature is even, Controllable: comfortable and warm breeding environment. Prospective design of dual fans(energy saving+standby).

The new type of boiler used by our company is made of high temperature resistant cast steel pipe, seamless pipe, the machine uses two times of heating, high thermal efficiency, fast heating, hot air cleaning, semi automatic temperature control, easy installation.



园艺暖风机 Garden Heater

组合机构，拆装方便、空间布置灵活。不占用花卉生产空间，升温快，供暖温度均匀。使用寿命长。

体积小，热效率高。

节能管道、管件在原有的取暖设施基础上改造无需再投资，减少了复杂的管道，避免了热能的损耗，实践证明比普通取暖设施节能40%以上，大大降低了温室大棚的生产成本。降低了温室大棚的生产成本。

The utility model has the advantages of convenient assembly and disassembly, flexible arrangement of space, no occupying space for flower production, rapid heating, uniform heating temperature and long service life.

The utility model has the advantages of small size and high thermal.

Such pipes and pipe fittings in the original heating facilities based on the transformation without investment, reduce the complexity of the pipeline, to avoid the loss of the heat energy, proved more than ordinary heating energy saving 40%, greatly reducing the greenhouse production cost.



降温系统 Cooling System

降温原理 Cooling Principle

利用水的蒸发降温原理实现降温目的，特制的疏水湿帘能确保水均匀地淋湿整个降温湿帘墙。空气穿透湿帘介质时与湿帘介质表面的水进行热交换。从而实现空气的加湿与降温。

The purpose of cooling is achieved by the evaporation of the water. The water can be evenly sprinkled on the whole cooling pad wall, when the air flow, it make heat-exchange with the water on the cooling pad, the temperature can be lowered and air will be humid.

温室风机 Greenhouse Fan

外框采用先进的自动加工工艺，精度高。特厚镀锌层，抗腐蚀性极强。

高强度的合金铸造轮毂，新型扭曲冲压成型扇叶，合理的叶型角度上确保的大量的气流产生。

严格的质量检测程序：噪音监测、震动检测、转动同心性能检测、风叶转速检测、风量检测、整机效率检测。

高性能的380V三相电机，采用铁制集风器、玻璃集风器两种，后部安全网拆卸方便，CAD优化设计。

The frame adopts advanced automatic processing technology with high precision. Special thick galvanized layer, strong corrosion resistance.

High strength alloy casting hub, a new twist forming fan blade, a reasonable blade angle to ensure the production of a large number of air flow .

Strict quality testing procedures: noise monitoring, vibration detection, concentric rotation performance testing, wind turbine speed detection, air volume detection, machine efficiency testing .

High performance 380V three-phase motor, Two kinds of iron collector and, glass collector are adopted, The safety net is convenient to disassemble and optimize in CAD.



温室湿帘 Greenhouse Curtain

湿帘是一种特种纸质蜂窝结构材料，其工作原理是“水蒸发吸收热量”这一自然的物理现象。即水在重力的作用下，从上往下流，在湿帘波纹状的纤维表面形成水膜，当快速流动的空气穿过湿帘时，水膜中的水会吸收空气中的热量后蒸发，带走大量的潜热，使经过湿帘的空气温度降低，从而达到降温的目的。

The wet curtain is a kind of special paper honeycomb structure material, its working principle is the physical phenomenon of “water evaporation heat absorption” of this nature, that is water under the action of gravity, from the down stream, the water film wet curtain corrugated fiber surface when the rapid flow of air through the wet curtain, water in the film absorbs heat in the air after evaporation, take away a lot of latent heat, so the temperature of air which through the wet curtain is reduced, so as to achieve the purpose of cooling.



天窗侧开系统 Skylight Side Opening System

系统功能 System Function

天窗采用交错式的开窗设计，加强空气的对流效果。开启角度可达30度。可根据内外的气候差异，做不同的张开度，通风面积可占温室顶面面积的20%以上。

侧窗采用整体机械式传动方式，与天窗配合进行降温，采用外翻式或推拉式侧窗。

独特的开窗外防虫网设计可以避免昆虫及杂物进入温室，减少对温室作物的感染。

天窗和侧窗采用齿轮齿条传动方式，电动控制。

Skylight with interlacing window design to enhance the air convection effect. Open angle can be up to 30 degrees. We make different degrees of openness according to the differences in climate, ventilation area can account for more than 20% of the top surface area.

The side window adopts the whole mechanical transmission mode, which is matched with the skylight to cool down and adopts valgus or push-pull side window.

The unique design of the insect screen outside the window can avoid insects and debris into the greenhouse, reducing the infection of greenhouse crops.

The skylight and the side window adopt the rack and pinion transmission mode.



温室骨架 Greenhouse Skeleton

骨架系统 Skeleton system

采用优质热浸镀锌型钢，所有构件加工均采用先焊接后镀锌工艺。质量保证20年，锌附着量大于490g/平方米，厚度大于70微米。所有构件现场组装，连接件和紧固件20年不锈蚀。

High quality hot dip galvanized steel, all components are used after welding process .

Quality assurance for 20 years, zinc adhesion is greater than 490g / square meters, thickness greater than 70 microns.

All components are assembled on site, connectors and fasteners can last for 20 years without rust .



覆盖材料 Cover Material

覆盖材料分为阳光板、单层玻璃、中空玻璃等，均采用铝合金型材与橡胶条安装密封，保证温室具有良好的气密性。铝合金型材均经过特殊的钝化处理，比一般的铝台金具有更好的耐腐蚀性。

薄膜：PO膜、PEP利得膜等，8~15丝，质量保证3~5年。

阳光板：外防紫外线，内防结露，透光性好，保温隔热性能良好，具有极好的强度、刚性、硬度、韧性和抗破裂性能，质量保证10年。

单层玻璃：外形美观，具有极好的透光性，保温隔热性能不如阳光板，质量保证10年。

The covering material is divided into polycarbonate sheet, single layer glass, insulating glass, etc. all adopt the aluminum alloy section and the rubber strip to install the seal, guarantees the good air tightness. Aluminum alloy profiles are treated with special passivation, which has better corrosion resistance than ordinary aluminum alloy.

Film: PO film, PEP film 80-150 micron, quality assurance 3~5 years.

Solar panels: anti UV, anti condensation, light transmission, good thermal insulation performance, with excellent strength, rigidity, hardness, toughness and anti cracking performance, quality assurance for 10 years.

Single glass: beautiful appearance excellent light transmittance, thermal insulation performance is not as good as the PC plate, 10 years of quality assurance.



温室配套设施 Greenhouse Attached Equipment

系统功能 System Function

采用行走式灌溉悬臂机构，安装在温室内部上方，可通过转移装置实现温室内部各跨之间的转移喷灌。通过喷灌机控制柜，可对喷灌机移动速度和喷水量进行调节。喷灌机采用进口喷嘴。每个喷嘴带有3个喷头，可通过旋转喷头来调整喷灌水型和流量。

The walking type irrigation cantilever mechanism is installed on the inner part of the greenhouse, which can realize the transfer sprinkler irrigation in the greenhouse. Through the control cabinet of the sprinkler, the speed and the amount of water spray can be adjusted. Spray irrigation machine adopts imported nozzles, each nozzle has 3 spray, can be adjusted by rotating sprinkler irrigation and flow.

移动喷灌机 Moving Sprinkler



环流风机 Circulation Fan

技术参数 Technical Parameters :

- | | |
|------------------|-------------------------------------|
| ▲型号：H-400 | Model : H-400 |
| ▲直径：400mm | Diameter : 400mm |
| ▲电压：220V | Voltage : 220V |
| ▲功率：120W | Power : 120w |
| ▲风量：3200立方米 / 小时 | Air volume : 3200 m ³ /h |

灌溉/施肥系统 Irrigation/fertilization System

系统功能 System Function

设计合理的灌溉施肥水处理系统，改善了作物对肥料的吸收功能。同时提高了作物的品质。

特别适合用于水质不佳的地区及对种植水质要求较高作物的温室。

先进的处理工艺与温室的生产工艺有效结合。

Reasonable irrigation and fertilization water treatment system is designed to improve the crops . The absorption of fertilizer improves the quality of crops .

The utility model is especially suitable for the greenhouse where the water quality is poor and the crops with high water quality requirements .

Effective combination of advanced processing technology and greenhouse production process.

无土栽培 Soilless Culture

无土栽培不用土壤，用其它东西培养植物的方法，包括水培、雾（气）培、基质栽培、

无土栽培中用人工配制的培养液，供给植物矿物营养的需要。无土栽培是一种不用天然土壤而采用含有植物生长发育必需元素的营养液来提供营养，使植物正常完成整个生命周期的栽培技术。在无土栽培技术中，能否为植物提供一种比例协调，浓度适量的营养液，是栽培成功的关键。

The method of cultivating plants by using other things without soil, including water culture, mist(gas)culture, substrate culture.

In the hydroponic technology, the nutrient solution is made by human to meet the demand of mineral nutrient for vegetable. The traditional soil is replaced by the artificial nutrient solution including all the necessary element for vegetable growing, which can guarantee the vegetable can finish the whole life circle. In the hydroponic technology, it is the key for vegetable growing by offering a solution which the proportion is harmonious and the concentration is moderate.



补光系统 Lighting System

主要特点 Main Characteristic

远程监控和服务能力。

可靠性和抗干扰性。

人性化设计。

智能温室计算机控制系统由：“气象站”+“室内环境传感器”+“温室控制软件”组成。

气象站：用于采集室外环境参数（室外温度、室外湿度、室外光照辐射、风速、风向、风雪信号）。

室内环境传感器：用于采集室内环境温度、环境湿度、室内光照辐射。

温室控制软件：用于对温室遮阳系统、降温系统、天窗系统等装置进行自动控制，同时对温室的环境数据进行采集、记录并自动生成数据报表和曲线图。

Remote monitoring and service capability.

Reliability and anti-interference.

Humanized design.

Intelligent greenhouse computer control system consists of: "weather station" + "indoor environment sensor" + "greenhouse control software".

Weather station: it is used to collect outdoor environmental parameters (outdoor temperature, outdoor humidity, outdoor light and radiation, wind speed, wind direction and storm signal).

Indoor environment sensor: it is used to collect indoor environment temperature, environmental humidity, indoor light and radiation.

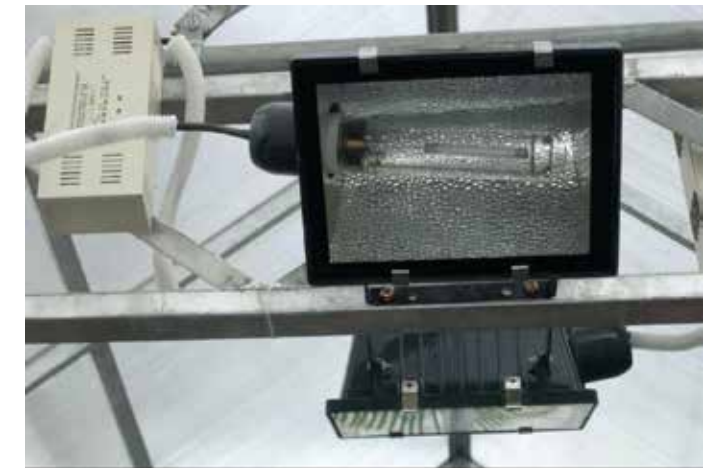
Greenhouse control software: it will provide automatic control for the greenhouse shading system, cooling system, skylight system and other devices. At the same time, it will collect, record the environment data for the greenhouse, and form the data report and curve graph automatically.



补光照明 Lighting System

农用钠灯是一种高强度钠气灯，它可以提供理想的与植物生长要求相吻合的光谱分布。无论是光合作用、光形态还是光周期生长与普通高压钠灯相比，农用钠灯光输出量高，红、蓝光能量更趋平衡。光谱分布的改善使作物的环境更容易控制，并且使作物生长更快，质量得以提高。

Agricultural sodium lamp is a lamp of high strength sodium gas, which can provide ideal spectral distribution in accordance with plant growth. Compared with ordinary high pressure sodium lamp, the output of agricultural sodium lamp is higher and the energy of red and blue is more balanced. The improved spectral distribution makes the crop environment easier to control and makes the crop grow faster with better quality.



移动苗床 Mobile Seedbed

苗床特点 Seedbed Characteristics

网面平整，焊接牢固，承重性好，尺寸准确，安装施工方便，抗腐蚀耐用。

主体结构材质采用铝合金边框，热镀锌材料，防腐性能高，称重能力好，寿命长。

具有防翻限位装置，防止由于偏重引起的倾斜问题。

合金型材或专用连接密封件连接密封，外形美观漂亮。

提高面积利用率，可达到90%以上。

此外还有固定苗床等，价格相对低廉但温室利用率低。



Smooth net surface, firm welding, good bearing property, accurate size, convenient installation and construction, corrosion resistant and durable.

The main structure is made of aluminum alloy frame and hot galvanized material, with features of high anti-corrosion performance, good weighing ability and long service life.

It has an anti-flip limit device to prevent the tilt problem caused by the bias.

The alloy material or the special connection and seal parts make the appearance very beautiful.

Improve the area utilization rate to more than 90%.

In addition, there are fixed seedbeds and so on, and the price is relatively low.



钢结构工程 Steel Structure Engineering

钢材的特点是强度高、自重轻、整体刚性好、变形能力强。故用于建造大跨度和超高、越重型的建筑物特别适宜；材料匀质性和各向同性好，属理想弹性体，最符合一般工程力学的基本假定；材料塑性、韧性好，可有较大变形，能很好地承受动力荷载；建筑工期短；其工业化程度高，可进行机械化程度高的专业化生产。钢结构应研究高强度钢材，大大提高其屈服点强度；此外要轧制新品种的型钢，例如H型钢（又称宽翼缘型钢）和T形钢以及压型钢板等以适应大跨度结构和超高层建筑的需要。



The characteristics of the steel is high strength, light weight, good overall rigidity and strong deformation ability. Therefore, it is especially suitable for building large spans and super-high and heavy buildings; good homogeneity and isotropic feature; an ideal elastomer; it reaches the most basic assumption of general engineering mechanics; the material has good plasticity and toughness, which can have large deformation, and withstand dynamic load well; construction period is short; its industrialization degree is high, and it can carry out specialized production with high degree of mechanization. Steel structures should be studied especially the high-strength steels, which greatly increase the strength of the yield point; in addition, new types of steels, such as H-beams (also known as wide-flange steels) and T-shaped steels and profiled steel sheets, are to be rolled to accommodate the over-span structure and super high-rise buildings.



温室车间一角 Greenhouse Processing Workshop

厂家优势

巨龙农业是最专业的温室装备生产厂家，拥有10000平米的生产基地和先进的生产线设备。致力于打造中国最好的温室工程厂家。

技术优势

专业的技术团队，可根据客户实际情况定制专业的方案。

质量优势

先进的生产设备，完善的检测设施，从物料进厂到成品出厂全方位，全过程进行质量控制，确保产品质量的稳定。

服务优势

公司有专业的售后团队，24小时服务热线，售后无忧。



Factory Advantage

Julong Agriculture is professional greenhouse equipment manufacturer with 10,000 square meters of production base and advanced production line. Julong is committed to be China's best greenhouse engineering manufacturer.

Technical Advantage

With a professional technical team, we can provide customized and professional solutions according to the project requirements of every customer.

Quality Advantage

With advanced production equipment and complete testing facilities, Julong will ensure the quality control for all the procedures from the raw material to finished products, so as to ensure the product quality.

Service Advantage

Julong has a professional after-sales service team and 24-hour service hotline.



资材配件 Material Accessories



电动卷膜器
electrical film rolling machine



手动卷膜器
manual film rolling machine



拉幕电机
Electric Motor for Curtain



紧线器
fastener



推杆接头
push rod connector



固膜卡
film fixture



卷帘机
volume curtain machine



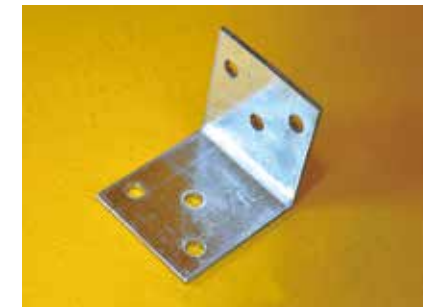
配电箱
power box



卡簧卡槽
wiggle wire and wire locker



压膜带
film pressing tape



角连接
angle connection



网勾
hook



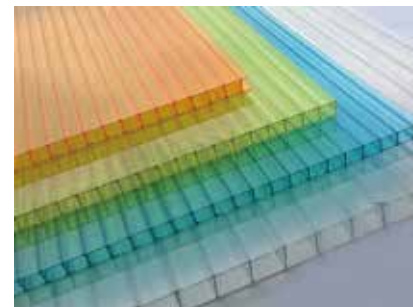
拉幕配件
shading parts



开窗齿轮
pinion



托幕线
curtain holding line



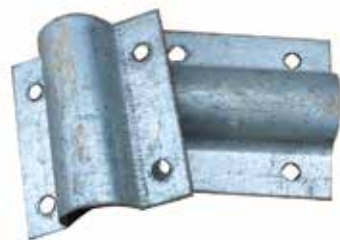
阳光板
polycarbonate sheet



利得膜、PO膜
PO film



保温被
heat insulation blanket



四眼压板
4 hole pressing parts



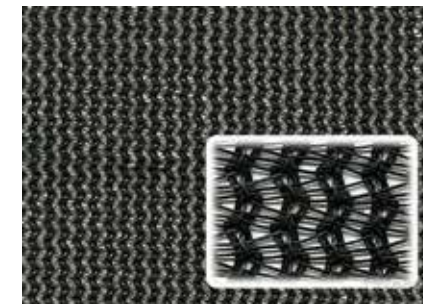
托架
holder



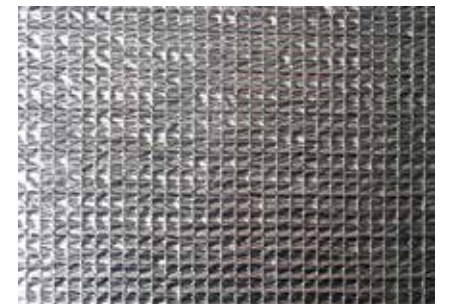
温室配件
small parts



水槽
gutter



长寿圆丝遮阳网
round wire shading net



长寿铝箔遮阳网
aluminum foil

部分工程案例 Cases



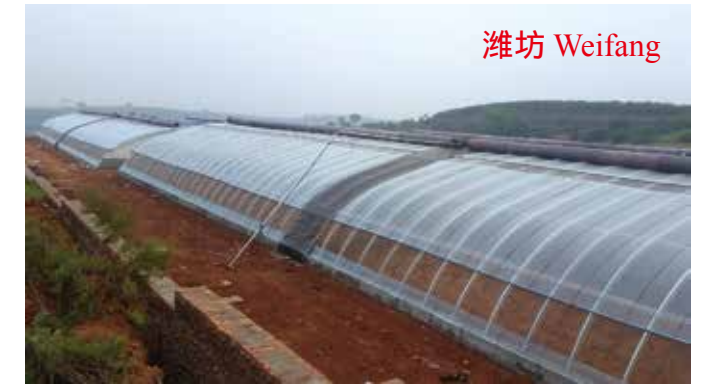
云南 Yunnan



四川 Sichuan



张家口 Zhangjiakou



潍坊 Weifang



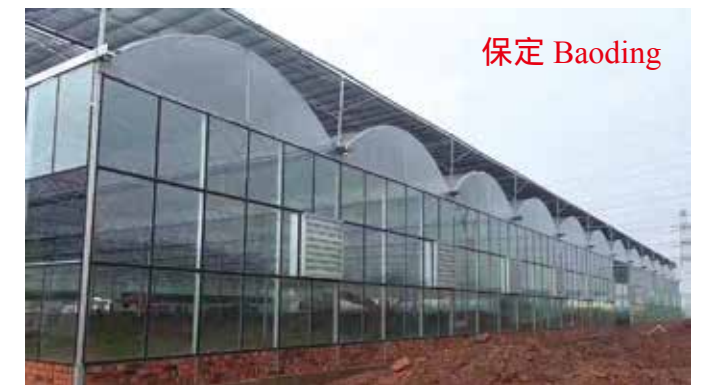
武汉 Wuhan



济宁 Jining



菏泽 Heze



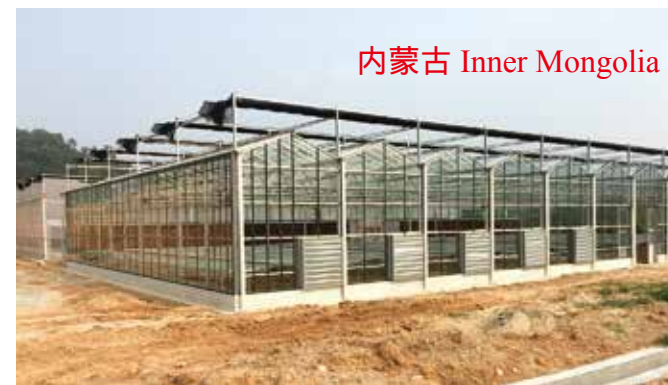
保定 Baoding



沐阳 Muyang



河北 Hebei



内蒙古 Inner Mongolia



云南 Yunnan



南京 Nanjing



云南 Yunnan



乌兹别克斯坦 Uzbekistan



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