



农业之心

Heart of agriculture

智能水肥一体化系统的领导者
Leader of intelligent water and
fertilizer integration system

山东圣大节水科技有限公司



山东圣大节水科技有限公司

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智能水肥一体化系统领导者
Intelligent water and fertilizer integration system leader



农业的未来在哪里？

Where is the future of the agriculture?

传统灌溉之困

The difficulties of traditional irrigation

几千年的农业发展，创造人类财富的同时，也带来世界范围内的难题：土壤生态被破坏，环境被污染，水资源被浪费……相对于庞大的资金与环境成本投入而言，粮食产量过低。

如何节约农业开发的人力、时间、环境成本，始终是现代农业企业正在攻克的难题。在农业节水领域，密集型的农业耕种模式，无论农田水资源的分配，还是灌溉系统的操作和控制都依靠人工到田间劳作，这样的方式有着如下弊端：

1. 费时费力：传统漫灌、沟灌、畦灌等灌溉方式灌溉效率低下，浪费大量农作时间，人工投入成本巨大。
2. 资源过度浪费：传统灌溉一方面水、肥资源地下渗漏严重，资源利用率低；另一方面输水沟渠占用较多土地，减小了耕作面积；再一方面传统灌溉灌时间动辄好几天，耗能严重。
3. 生存环境恶化：过度灌水、施肥易导致土壤板结、土壤盐碱化、地下水污染等环境问题，作物烂根、烧根现象时有发生，且传统灌溉土传病害发病率高，致使作物减产严重。
4. 凭借传统经验，无科学依据：作物的需水需肥量完全凭借传统经验给予，实际情况与作物的生长期所需偏差较大，无数数字化的依据作指导，产量质量得不到保障，不能够产生最大经济效益。

Thousands of years of agricultural development had brought problems worldwide while creating human wealth: soil ecology had been destroyed, the environment had been polluted, and water resources had been wasted..... Compared with the huge investment of funds and environmental costs, grain yield is much too low.

How to save the human power, time and environmental costs of agricultural development has always been a difficult problem that modern agricultural enterprises are overcoming. In the field of agricultural water saving and under intensive agricultural farming mode, whether the allocation of farmland water resources or the operation and control of irrigation system shall all rely on manual work in the farmland. It has the following disadvantages:

1. Waste time and manpower. Traditional flooding irrigation, furrow irrigation, border irrigation and other irrigation modes has low irrigation efficiency, wastes a lot of farming time and costs a lot of manpower input.
2. Excessive waste of resources: on the one hand, the water and fertilizer resources of traditional irrigation has serious underground leakage and low resource utilization rate; on the other hand, water delivery irrigation canals and ditches had occupied more land and reduced farming area; and then on the other hand, traditional irrigation usually takes several days, which consumes a lot of energy and too much electricity.
3. Deterioration of living environment: excessive irrigation and fertilization can easily lead to soil consolidation, soil salinization, groundwater pollution and other environmental problems, and crop root rot and burning also occurs from time to time. Besides, the incidence of soil-borne diseases in traditional irrigation is high, resulting in serious crop yield reduction.
4. Rely on traditional experience without scientific basis: The water and fertilizer requirement of crops is entirely based on traditional experience. The actual situation deviates greatly from the requirement during crop growing period. Without the guidance of digitization bases, the yield and quality cannot be guaranteed and the maximum economic benefits cannot be achieved.

科技 改变传统

Science and technology change the tradition

现代科技的发展，将未来农业的方向指向

“精准”、“高效”、“智慧”、“生态”。

现代农业要求，努力提高土地产能，变资源高耗型农业为资源高效型农业。

如今，在中国，“乡村振兴”事业正如火如荼。突破水肥资源约束，以节水科技服务现代农业，就是提高土地产能、实现农业转型升级的关键一环。

2018年中央1号文件提出：大力发展节水农业，控制农业用水总量，推动实施化肥施用总量零增长行动，提高水肥资源利用效率，加快推进水肥一体化工作，促进农业可持续发展。

在此战略背景下，“水肥一体化”技术和更为广阔的“智慧农业”探索，逐渐在蔬菜种植、果园栽培、科学大棚、无土栽培及棉花等大田种植作业中得到推广、普及。减少农作物残留超标和土壤污染现象的发生，使种植更科学、高效、绿色、智能，改变“新农人”的生活，成为农业科技工作者的共识与努力方向。

The development of modern science and technology directs the future direction of agriculture towards "precision", "efficiency", "wisdom" and "ecology".

Modern agriculture requires working hard to improve land productivity and transform high resource-consumption agriculture into resource-efficient agriculture.

Nowadays, in China, "rural revitalization" is in full swing. Breaking through the restriction of water and fertilizer resources and serving modern agriculture with water-saving science and technology is the key link to improve land productivity and realize agricultural transformation and upgrading.

Document No. 1 of the Central Committee in 2018 put forward that we shall vigorously develop water-saving agriculture, control the total amount of water used in agriculture, promote the implementation of zero-growth action of fertilizer consumption, improve the utilization efficiency of water and fertilizer resources, accelerate the water and fertilizer integration, and promote the sustainable development of agriculture.

Under this strategic background, the technology of "water and fertilizer integration" and broader exploration of "wisdom agriculture" have gradually been promoted and popularized in vegetable planting, orchard cultivation, scientific greenhouse, soilless cultivation, cotton and other field planting operations. Reducing excessive crop residues and the occurrence of soil pollution, making planting more scientific, efficient, green and intelligent, and changing the life of "new farmers" have become the consensus and striving direction of agricultural scientists and technicians.



DASU

我们始终在引领 WE ARE ALWAYS LEADING.



圣大节水 智能水肥一体化系统供应商

Supplier of Shengda Water Saving Intelligent
Water and Fertilizer Integration System

看见趋势，更知未来。

See the trend and know the future.

来自中国蔬菜之乡——山东寿光的现代农业科技企业，圣大节水始终专注农业新科技的探索。在新时代，致力于“水肥一体化”技术探索；节水灌溉设备的设计、研发、制造；农业灌溉项目的顶层设计与工程实践。

As a modern agricultural science and technology enterprise from Shouguang, Shandong, the Town of Vegetables in China, Shengda Water Saving has always focused on the exploration of new agricultural science and technologies. In new era, it is committed to the technological exploration of "water and fertilizer integration", design, R&D and manufacturing of water-saving irrigation equipment, and top-level design and engineering practice of agricultural irrigation projects.

我们专注节水，更懂农业。

We focus on water saving, but we know more about agriculture.

诞生于蔬菜之乡、农耕文化之乡、温室大棚农业设施发源地和农业技术输出地——中国寿光，圣大节水拥有对农业科技创新的绝对敏感和权威。

Born in Shouguang of China, the Town of Vegetables, the Town of Farming Culture, the Source of Greenhouse Agricultural Facilities and the Output Area of Agricultural Technology, Shengda Water Saving has absolute sensitivity and authority to agricultural science and technology innovation.

我们实用为本，更知所需。

We base on practice, but we know more about your demands.

每一个产品的设计创意，都来自于农业工作中真实的反馈，和我们对客户未来需求的前瞻。我们认为，只有科学、实用的产品，才是最好的产品。只有能够给用户带来更大经济效益的产品，才是有价值的产品。

The design creativity of each product comes from the real feedback in the agricultural work, and our prospects for the future needs of customers. We believe that only scientific and practical products are the best products. Only products that can bring greater economic benefits to users are valuable products. The design originality of every product comes from the real feedback from agricultural work and our predictions for customers' future needs. We believe that only scientific and practical products are the best products. Only products that can bring greater economic benefits to users are valuable products.

目前，圣大节水是国内节水灌溉领域

规模大、品种全、综合技术高

的设备制造商、方案提供商和节水灌溉项目运营商。

At present, Shengda Water Saving is the an intelligent equipment manufacturer, scheme provider and water-saving irrigation project operator with large scale, complete variety and high comprehensive technology in the field of water-saving irrigation in China.



综合型企业

Comprehensive enterprise

从产品的自主研发到工程项目的规划实施，将产品链与项目链的完美结合。

现场勘查、配套产品生产制造，项目工程的施工和售后维护服务……圣大节水可全流程服务大型农业灌溉、施工类项目。

Perfectly combine product chain and project chain from the independent R&D of products to the planning and implementation of engineering projects. Site investigation, production and manufacture of supporting products, construction and after-sales maintenance services of project engineering..... Shengda Water Saving can serve large-scale agricultural irrigation and construction projects in the whole process.



技术研发科技型企业

Technological R&D scientific and technology enterprise

圣大节水拥有专业的产品研发团队，规划设计团队，农艺专家团队，并与山东农业大学、山东农科院，山东农业工程学院等科研院校以及以色列、荷兰等农业强国的合作伙伴建立研发合作关系，成为中国技术研发科技型企业。

Shengda Water Saving has professional product R&D team, planning and design team, and agriculture expert team, and has established R&D cooperation with Shandong Agricultural University, Shandong Academy of Agricultural Sciences, Shandong Agriculture and Engineering University and other research institutes, as well as partners of powerful agricultural countries such as Israel and the Netherlands to become a technological R&D scientific and technology enterprise in China.



生产型企业

Productive enterprise

圣大节水拥有完善的产品生产线，精尖端的德国进口管道生产设备，国内一流的微滴灌生产线，严格执行国际质量标准，使用进口原材料，智造出引领行业的农业灌溉设备。为广大合作商提供有力的产品支撑。

Shengda Water Saving has perfect product production line, fine and top-end German imported pipeline production equipment, and domestic first-class micro-drip irrigation production line to strictly implement international quality standards, use imported raw materials, intelligently manufacture industry-leading agricultural irrigation equipment and provide strong product support for vast number of partners.

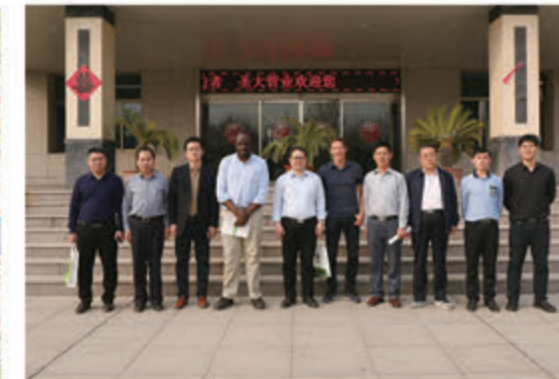


灌溉工程企业

Irrigation engineering enterprise

拥有专业的水利灌溉规划设计团队，以运营管理者的视角，依据作物的生长需求，完成从前期勘查调研到制定具体切实可行方案，再到项目组织施工，售后维护管理的系统化服务流程。

We have a professional water conservancy and irrigation planning and design team to complete the systematic service process from preliminary investigation and research to the formulation of concrete and feasible schemes, and then to project organization and construction, and after-sales maintenance and management from the perspective of operation managers according to the growth needs of crops.



Our businesses

我们的业务

- 节水灌溉新产品、新技术的推广与实施;
 - 水肥一体化及现代化农业技术的研究与实施;
 - 智慧农业、农田信息控制、信息化温室远程控制、物联网技术及农业大数据应用的研究推广与实施;
 - 高效节水灌溉、水肥一体化、智慧农业等项目的推广与实施。
- Promotion and implementation of new products and technologies for water-saving irrigation;
 ○ Research and implementation of water and fertilizer integration and modern agricultural technologies;
 ○ Research, promotion and implementation of intelligent agriculture, farmland information control, remote control of informationized greenhouse, Internet of Things technology and agricultural big data application;
 ○ Promotion and implementation of high-efficiency water-saving irrigation, water and fertilizer integration, intelligent agriculture and other projects.

Cooperation Modes

合作方式

- 经销加盟（从乡镇级到县级产品经销网点）
 - 渠道合作（水利，园林、市政灌溉，农资经销，肥料，农业服务等企业合作）
 - 客户服务（提供产品技术、咨询，项目设计、咨询）
 - 项目合作（政府采购，节水灌溉，水肥一体化，智慧农业）
- Distribution and join in (product distribution network from level of towns to level of counties and cities)
 ○ Channel cooperation (water conservancy, gardening and municipal irrigation, agricultural materials distribution)
 ○ Customer service (provide product technologies and consultation, project design and consultation)
 ○ Project cooperation (government procurement, water-saving irrigation, water and fertilizer integration, intelligent agriculture)

我们的文化 OUR CULTURE

秉承圣大集团企业诚信为本、创新为魂的宗旨，吸纳世界农业节水灌溉科技最新理念，圣大节水科技有限公司突破传统，昭示未来。

Adhering to the principle of "honesty as foundation and innovation as soul" of Shengda Group and absorbing the latest concept of world agricultural water-saving irrigation technology, Shengda Water Saving Science and Technology Co., Ltd. breaks through the tradition and shows the future.

核心价值观 Core values

共享共担，共创共赢

- 与市场、用户、合作伙伴共享科技创新成果；
- 与企业、团队、员工共担现代农业进步使命；
- 与院校、科研机构、农业专家共创农业智慧；
- 与地方、社会、世界共赢农业科技创新财富。

Sharing and Bearing Together, Creating and Winning Together.

- Share scientific and technological innovations with markets, users and cooperative partners together;
- Bear the mission of progress in modern agriculture with the enterprise, teams and employees together;
- Create agricultural intelligence with institutions, scientific research institutions, and agricultural experts together;
- Win agricultural scientific and technological innovation wealth with local region, society and the world together.

企业理念 Enterprise concept

- 客户第一：以客户需求为导向，客户服务为核心，客户满意度为标准。
- 科技创新：以技术优化产品质量和层次，满足应用环境，提升客户体验。
- 团队合作：共享，共担，共拼搏；积极融入团队，提出建设性意见，用团队的力量解决问题和困难。
- 拥抱变化：拥抱时代变化，拥抱市场变化，拥抱科技创新，拥抱个人成长。
- 诚实守信：对客户诚实守信，对同事正直坦荡。
- 乐观敬业：热爱事业，努力工作；热爱农业，扎根本职；热爱世界，时刻保持对未来的美好期待。

- Customer first: take customers' requirements as the orientation, take customer service as the core and take customer satisfaction degree as the standard.
- Scientific and technological innovation: optimize product quality and level, satisfy application environment and enhance customer experience with technology.
- Teamwork: share, bear and fight together; actively integrate into the team, propose constructive suggestions, and solve problems and difficulties with team power.
- Embrace the changes: embrace the changes of times, the changes of market, scientific and technological innovation and personal growth.
- Honesty and trustworthiness: be honest with customers and be frank to colleagues.
- Optimistic and dedicated: love the career and work hard; love agriculture and take root in your position; love the world and always keep looking forward to the good future.

企业愿景 Enterprise vision

与农业实践者一起，成为现代农业的引领者。

- 成为国际一流的水肥一体化系统综合服务商；
- 成为现代农业智慧的探索者和引领者。

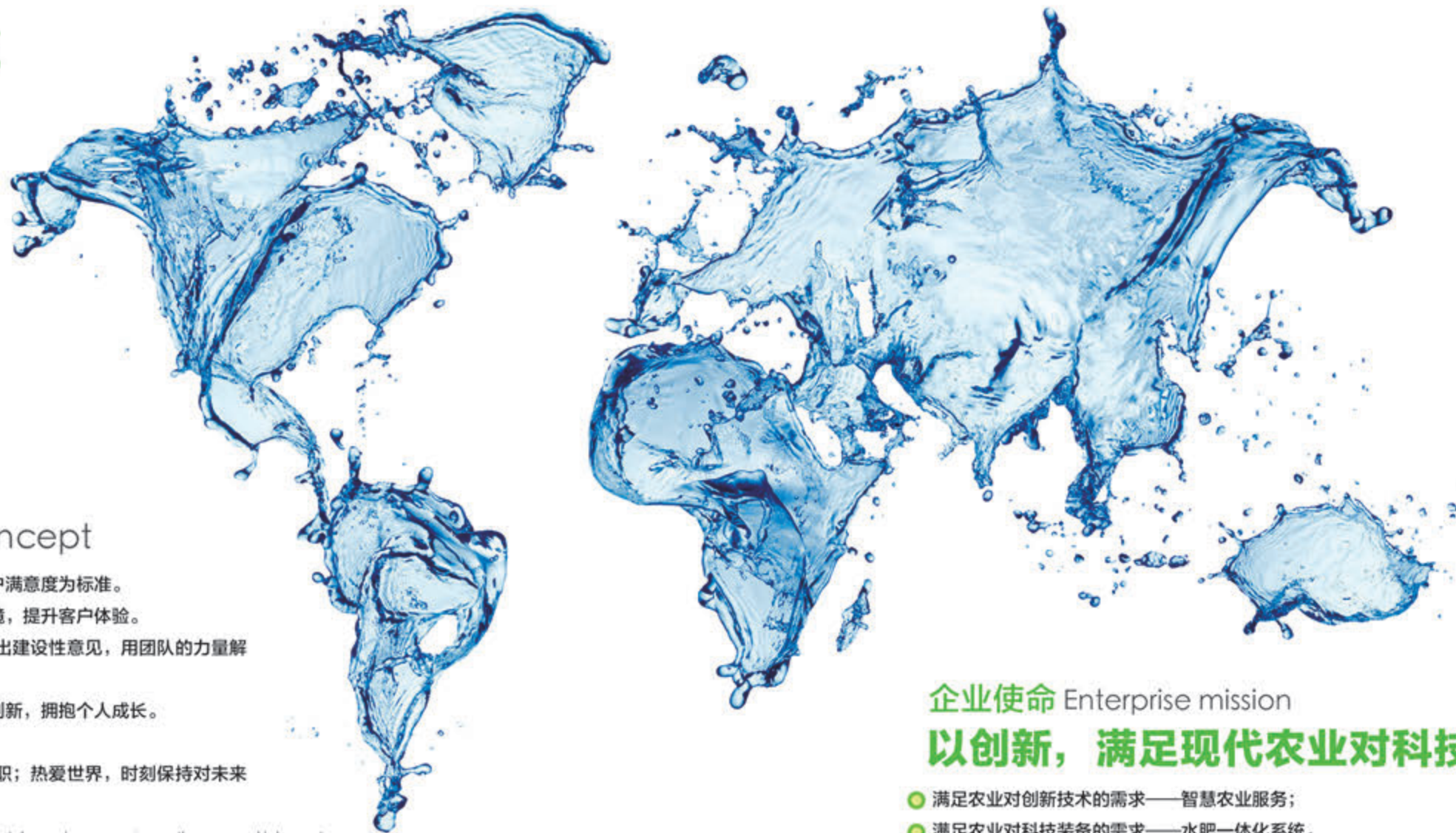
Become the leader of modern agriculture with agricultural practitioners.
○ Become the world leading comprehensive service provider of water and fertilizer integration system;
○ Become the intelligent explorer and leader of modern agriculture.

企业使命 Enterprise mission

以创新，满足现代农业对科技的需求。

- 满足农业对创新技术的需求——智慧农业服务；
- 满足农业对科技装备的需求——水肥一体化系统。

Satisfy modern agriculture's requirement of science and technology with innovation.
○ Satisfy modern agriculture's requirement of innovative technology - intelligent agriculture service;
○ Satisfy modern agriculture's requirement of scientific and technological.



我们的荣耀

Our honor

资质认证:

ISO9001质量管理体系认证、ISO4001环境管理体系认证、职业健康管理体系认证、节水产品认证证书、灌溉企业资质等级证书、农机推广鉴定证书、软件专利证书、商标注册证书。

品质鉴证:

圣大节水积极研究、探索以色列先进的灌溉技术与荷兰的种植技术，与国内的农业发展现状相结合，自主研发的智能水肥一体机，获得20余项专利证书与软件著作权证书；并通过了农业机械科学研究所的检验与认定，获得了农业机械推广鉴定证书；荣获高新技术企业称号。

Qualification certification: ISO9001 Quality Management System Certification, ISO4001 Environmental Management System Certification, occupational health management system certification, certificate of water-saving product certification, grading certificate of irrigation enterprise qualification, appraisal certificate of agricultural machinery promotion, software patent certificate and trademark registration certificate.

Quality authentication: Shengda Water Saving actively has researched and explored advanced Israeli irrigation technology and Dutch planting technology and independently developed intelligent water and fertilizer all-in-one machine combining with domestic agricultural development status, and obtained more than 20 patent certificates and software copyright certificates; it also has passed the verification and affirmation of Chinese Academy of Agricultural Mechanization Sciences and obtained the appraisal certificate of agricultural machinery promotion; it has won the title of high-tech enterprise.







国家水利部原副部长翟浩辉一行莅临圣大节水考察
Zhai Haohui, former vice-minister of National Ministry of Water Resources, visited Shengda Pipeline Industry for investigation with his delegation.



山东省水利厅总规划师杜贞栋一行莅临圣大考察
Du Zhendong, chief planner of Shandong Water Resources Department, visited Shengda.



圣大节水主办的首届中国(寿光)节水农业暨水肥一体化交流研讨会现场
The site of the 1st China (Shouguang) Water-saving Agriculture and Water and Fertilizer Integration Exchange Seminar held by Shengda Water Saving.



山东省原副省长王军民、寿光市委书记朱兰玺等领导听取圣大节水一体机研发情况
Wang Junmin, former Vice-Governor of Shandong Province, and Zhu Lanxi, municipal party secretary of Shouguang City, and other leaders listened to the R&D situations of Shengda water and fertilizer oil-in-one machine.



与乌兹别克斯坦项目对接技术交流
Communication of project exchange with project of Uzbekistan.



与美国客户合作洽谈
Discussion on cooperation with US client.



汪懋华院士与省农科院领导来公司指导工作
Academician Wang Maohua and leaders of Shandong Academy of Agricultural Sciences came to the Company to guide work.



泰国农业部农民议会主席来访参观
Chairman of Farmer Parliament of Ministry of Agriculture of Thailand came for a visit.

领导关怀 Caring from leaders

基于对现代农业科技探索的贡献，圣大节水科技有限公司得到国家农业部、省市各级领导的关怀和重视，并多次到车间视察，指导工作。

Based on its contribution to the exploration of modern agricultural science and technology, Shengda Water Saving Science and Technology Co., Ltd has received the caring and attention of the leaders of the Ministry of Agriculture and provincial and municipal leaders at all levels, who have come to workshops to inspect and guide the work many times.

智慧协助：Intelligent assistance

圣大节水秉持对现代农业高新技术的探索，获得高校、科研院所的青睐，成为其可信赖的合作伙伴。

Shengda Water Saving adheres to the exploration of high and new technologies of modern agriculture, gains the favor of universities and scientific research institutes, and becomes their trusted partner.

国际合作 International cooperation

作为中国农业科技的杰出代表，在两国政府的共同关注下，与现代化农业强国以色列相关机构和优秀的农业科技开展深度合作，产品远销东南亚国家，美国，俄罗斯，乌兹别克斯坦，南非等国家。

As an outstanding representative of China's agricultural science and technology, under the common concern of the two governments, we have developed deep cooperation with relevant institutions and excellent agricultural science and technology companies of Israel, a modern agricultural power. Our products have been exported to Southeast Asian countries, the United States, Russia, Uzbekistan, South Africa and other countries.

从这里 看未来 LOOK AT THE FUTURE FROM HERE

国内杰出的智慧农业系统解决方案
Outstanding intelligent agricultural system solution at home

农业的未来，就是我们的未来。

以“水肥一体化”技术的研发与推广为起点，圣大节水将向智慧农业全面进军。

利用物联网的远程控制、数据库、云计算、传感网、3S等多种信息技术开发智慧农业产品，使农业由人工走向智能，由资源高耗型传统农业转变为资源高效型现代农业。

The future of agriculture is the future of us.
Starting from the R&D and promotion of "water and fertilizer integration" technology, Shengda Water Saving will march towards intelligent agriculture in an all-round way.
Developing intelligent agricultural products by means of remote control, database, cloud computing, sensor networks, 3S and other information technologies of the Internet of Things to make agriculture transform from artificial to intelligent and from high resource-consumption traditional agriculture to resource-efficient modern agriculture.

智慧农业 Intelligent agriculture



让农业“飞起来” Let agriculture "fly up"

通过部署在农作物现场的传感节点和无线通信网络，依托“圣大节水智慧农业平台”，实现农业生产环境的实时反馈，汇集农业生产种植过程中的大量数据进行分析应用。

通过手机APP、网页、微信小程序等远程移动设备，实现远程监控，随时随地掌握农场动态信息，让农业种植更精准、更便捷。

Realize real-time feedback of agricultural production environment through the sensor nodes and wireless communication network deployed in the field of crops and relying on "Shengda Water Saving Intelligent Agricultural Platform" to collect mass of data in the process of agricultural production and planting for analysis and application.
Realize remote control through mobile phone APP, webpage, Wechat applet and other remote mobile devices to grasp dynamic information of farm at anytime and anywhere and make agricultural planting more accurate and convenient.



让成长“看得见” Make the growth "visible"

智能感知、智能分析、智能预警、智能决策、智能控制、专家在线指导，为农业生产提供精准化种植、可视化管理。

Intelligence, intelligent analysis, intelligent early warning, intelligent decision-making, intelligent control and online guidance of experts can provide precise planting and visual management for agricultural production.

用智慧去点亮 Lighten with intelligence

智慧感知 Intellisense

圣大节水感知系统主要是由物联网监测终端和物联网传输终端组成。物联网监测终端负责采集空气温湿度、光照度等环境信息，采集到的数据发送至物联网传输终端，传输终端汇总多个无线传感器网络系统发送过来的数据后再打包上传到云服务器。无线传感器网络系统可以在长期无人值守的状态下工作，用户通过手机、平板电脑、PC或其它移动互联网设备就可以随时随地进行数据监测，释放了大量劳动力的同时确保了作物正常的生长环境。

Shengda Water Saving sensing system is mainly composed of monitoring terminal and transmission terminal of Internet of Things. The monitoring terminal of the Internet of Things is responsible for collecting air temperature and humidity, illumination and other environmental information. The collected data is sent to the transmission terminal of Internet of Things. The transmission terminal collects the data sent by several wireless sensor network systems and then packages and uploads them to the cloud server. Wireless sensor network system can work in a long-term unattended state. Users can monitor data anytime and anywhere through mobile phones, tablet computers, PCs or other mobile Internet devices, which releases a large number of labor while ensures the normal growth environment of crops.



智慧灌溉、水肥一体化 Intelligent irrigation, water and fertilizer integration

通过物联网技术，将智能传感器所收集的农业生产环境数据进行分析，计算作物所处的状态或作物各生长期的需求，从而决定灌溉时间，用水量和用肥量，把握最好的时机。

Through the Internet of Things technology, the data of agricultural production environment collected by intelligent sensors are analyzed to calculate the status of crops or the demand of crops in each growing period, determine the irrigation time, water and fertilizer consumption, and grasp the best time.



智慧温室 Intelligent greenhouse

通过控制温室温度、空气、光照、二氧化碳、水分、养分等来调控温室小气候，从而满足作物对生长环境中水肥气热的需求，影响作物生长环境因素，真正实现了温室种植生产的高效自动化和精准化管理，显著提升温室作物的均一性和商品性，真正实现节能环保、提质增效的目标。

By controlling the temperature, air, light, carbon dioxide, water and nutrients of the greenhouse to regulate and control the microclimate of the greenhouse, so as to meet the needs of crops for water, fertilizer, gas and heat in the growing environment, influence the factors of crop growing environment, truly realize the efficient automation and precise management of greenhouse planting and production, significantly improve the uniformity and commodity of greenhouse crops and thereby realize the goal of energy conservation and environmental protection as well as quality and efficiency improvement.



智慧农场 Intelligent farm

农业生产具有地域性、季节性、专业性、复杂性等特点，不同的农产品具有不同的生产管理流程，且不同的生产管理者往往又有不尽相同的生产管理方法，为了实现农场生产管理专业化、标准化、智能化，提高农场生产管理的效率，急需打造符合农场自身特点的生产管理系统。

圣大节水农场生产管理系统，可对农场全生产流程的每个环节进行信息化、智能化管理，包括规划生产流程、自动化任务管理、即时沟通交流、巡回监督管理、病虫害图像识别、农资投入品管理等，全方位的管理农场，提升农场生产的专业化与标准化。

Agricultural production has the characteristics of regionality, seasonality, professionalism and complexity. Different agricultural products have different production management processes, and different production managers often have different production management methods. In order to realize the specialization, standardization and intellectualization of farm production management and improve the efficiency of farm production management, it is urgent to build a production management system complying with the characteristics of the farm itself.

The farm production management system of Shengda Water Saving can carry out informatized and intelligent management for every link of the whole production process of the farm, including planning production process, automated task management, instant communication, patrol supervision and management, image recognition of plant diseases and insect pests, and management of agricultural material inputs to manage the farm in an all-round way and improve the professionalism and standardization of farm production.



农产品溯源 Tracing the source of agricultural products

“民以食为天，食以安为先”，圣大节水农产品溯源解决方案即采用先进的农业物联网技术，结合现代信息化手段，对农产品的产地环境、农业投入品、农事生产过程、质量检测、加工储运等质量安全关键环节进行数字化管理，为农产品建立“身份证”制度，实现农产品的全程可追溯。同时，通过一物一码技术，帮助农业生产和流通企业实现产品防伪鉴真，并精准获取客户分布数据，助力农产品营销。

“People regard food as their prime want and safety is prior to the food.” Shengda Water Saving agricultural products traceability solution adopts advanced agricultural Internet of Things technology and modern informatization technology to carry out digital management of environment of origin, agricultural inputs, agricultural production process, quality inspection, processing, storage and transportation and other key links of quality and safety of agricultural products, so as to establish an “ID card” system for agricultural products and realize the traceability of agricultural products throughout the process. In the meantime, through one-thing-one-code technology, we can help agricultural production and circulation enterprises to realize anti-counterfeiting and authenticity detection of the products, and accurately obtain customer distribution data to help agricultural product marketing.



农业大数据 Agriculture big data

我们利用物联网、遥感、移动互联网等信息技术进行农业生产全要素收集，根据生产要素分析作物长势、成熟度、收获预期等生产信息以及测土配方施肥、病虫害分析预警，根据分析结果对农业智能化生产进行更加精准化、智能化的监管指导。

We use Internet of Things, remote sensing, mobile Internet and other information technology to collect all factors of agricultural production, according to which we analyze crop growth, maturity, harvest expectations and other production information as well as testing soil for formulated fertilization and pest analysis and early warning. According to the analysis results, we can provide more precise and intelligent supervision and guidance for agricultural intelligent production.



用智慧去点亮 Lighten with intelligence

物联网智慧农业解释图

Key drawing of Internet of Things intelligent agriculture



圣大物联网农业示例

Example of Shengda Internet of Things agriculture





圣大节水的水肥一体化产品，适用于各种生态环境。

从种植环境出发，从作物需求出发，从使用者和农艺师的习惯出发，致力于为广大用户提供科学、实用、耐用的水肥一体化系统，带来精准、智能、高效的农业工作体验。

The water and fertilizer integration products of Shengda Water Saving are applicable to various kinds of growing environment. Starting from planting environment, crop demand and habits of users and agronomists, we are committed to providing vast number of users with a scientific, practical and durable water and fertilizer integration system and bringing accurate, intelligent and efficient agricultural work experience.

水肥一体化

Water and fertilizer integration

让灌溉随心所欲

Make irrigation at your will

作为农业物联网的终端应用，“水肥一体机”是圣大节水为现代农业打造的尖端作品。

以市场需求为导向，科学种植为思想，为圣大节水制造出针对不同种植规模、种植环境的农业种植管理模式的水肥一体机，圣大节水水肥一体化技术，是集灌溉、施肥为一体，通过远程控制技术，借助管道压力系统，在灌溉的同时将肥料按照作物所需与灌溉水均匀混合，一起输送到作物根部或叶面发育生长区域，把水分、养分，均匀、精准的提供给作物，实现水肥一体，肥随水走，节水节肥、省工省时、高效便捷。

As the terminal application of agriculture Internet of Things, "water and fertilizer all-in-one machine" is the top-end work of Shengda Water Saving produced for modern agriculture. Taking market demand as guidance and scientific planting as thought, the water and fertilizer all-in-one machine for agricultural planting management modes with different planting scale and planting environment is manufactured for Shengda Water Saving. The water and fertilizer integration technology of Shengda Water Saving integrates irrigation and fertilization. By means of remote control technology and pipeline pressure system, fertilizers are evenly mixed with irrigation water according to crop requirements during irrigation, and then transported to the root or leaf growth area of crops together, evenly and accurately providing water and nutrients to crops, realizing the integration of water and fertilizer, fertilizer going with water, and saving water, fertilizer, labor, time with high efficiency and convenience.





适用于不同规模农田

Applicable to farmland of different scales

从控制一两个大棚三五亩地的简易型水肥一体机，到控制两三百亩地的智能水肥一体机，每一款的功能和特色各有不同。

From simple water and fertilizer all-in-one machine controlling one to two greenhouses and three to five mu farmland to intelligent water and fertilizer all-in-one machine controlling 200-300 mu farmland, each type of machine has its own functions and characteristics.



适用于种植专业程度不一的用户

Applicable to users of different professional planting degree

有专门针对农户使用的简单容易操作的水肥一体机，也有针对大型园区种植管理者基础版智能水肥一体化操作系统，另外还有针对高端品牌农产品种植园区管理者及高级农艺师和专家使用的专业版智能水肥一体化作物管理系统。

There are water and fertilizer all-in-one machines especially for farmers which are simple and easy to operate, and basic intelligent water and fertilizer integration operation systems for planting managers of large-scale parks. There are also professional intelligent water and fertilizer integration crop management systems for planting managers of high-end brand agricultural product planting parks and senior agronomists and experts.



适用于不同作物不同生长阶段的需求

Applicable to requirements of different crops in different growing periods

通过可控管道系统供水、供肥，使水肥相融后，通过管道和滴头形成滴灌、均匀、定时、定量，湿润作物根系发育生长区域，使主要根系土壤始终保持疏松和适宜的含水量。对不同作物的生长期需水、需肥规律情况进行不同生育期的需求设计，把水分、养分定时定量，按比例直接提供给作物。

Supply water and fertilizer through the controllable pipeline system to mix water and fertilizer, and then form uniform, regular and quantitative drip irrigation through pipeline and dripper to infiltrate the growing area of crop root system, keep the soil of main root system loose and maintain suitable water content all the time. Carry out requirement design in different growth periods of water and fertilizer requirement law of different crops in different growing periods. Supply water and nutrients regularly and quantitatively to crops directly in proportion.



适用于不同种植环境

Applicable to different planting environment

应用于有水井、水库、蓄水池等优质、固定水源地，以成熟的滴灌、微灌技术，为温室大棚内的经济作物，山地丘陵地区果树，大田间的粮食作物成长服务。

It is applied to high-quality and fixed water sources such as wells, reservoirs and impounding reservoirs. With mature drip irrigation and micro-irrigation technology, it provides service for the growth of cash crops in greenhouses, fruit trees in mountain and hilly areas and grain crops in fields.

智能水肥一体化系统
Intelligent water and fertilizer integration system



操作简单，智能化程度高

Easy to operate with high intelligence



节肥50%

Save fertilizer for 50%



节水60%

Save water for 60%



增产30%

And increase production for 30%



省时省工高效便捷

Save time and labor with high efficiency and convenience



绿色环保

Green and environmental protection



水肥精准控制

Precise control of water and fertilizer



适用于现有或新增的灌溉系统

Applicable to existing or new irrigation systems



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