

# 大连三益机械有限公司

## DALIAN SANYI MACHINERY CO., LTD.

a professional manufacturer of large-scale agricultural irrigation systems



Storm Lin (林海涛) Sales Manager (销售经理) Cell: +86 136 7424 6518 Email: [sales@csanyim.com](mailto:sales@csanyim.com)



# 大连三益机械有限公司

## DALIAN SANYI MACHINERY CO., LTD.

**SANYI** is a professional manufacturer of large-scale agricultural irrigation systems, founded in 1991, and is located in Dalian city, China, which is a coastal city, convenient transportation. The factory covers an area of 44,000 square meters, the total investment amounts to CNY55,000,000.

Sanyi specializes in the production of various large-scale sprinkler irrigation systems, including Center pivot irrigation, Towable irrigation, Lateral move irrigation, Linear & Rotating irrigation, Hose reel irrigation, fertigation, parts, and accessories.

Sanyi has a strong technical team, experienced production workers, advanced production technology and equipment, and implement strict quality standards, these ensure that our product quality meets international requirements.

Sanyi's products are simple operation, high efficiency, durability, and energy-saving features. The products have been exported to over 20 countries and regions worldwide, including the United States, Australia, Canada, New Zealand, Ireland, Russia, Ukraine, Bhutan, and Zimbabwe, etc.

大连三益机械有限公司是一家专业的大型农业灌溉机制造商，成立于1991年，位于辽宁省大连市。工厂占地44,000平方米，总投资5,500万元。

三益主要生产各种大型喷灌系统，如，中心支轴喷灌机，牵引式喷灌机，平移式喷灌机（2轮，4轮），平移回转喷灌机，卷盘式喷灌机，水肥一体机，喷灌机零件和配件等。

三益有能力强大的技术团队，经验丰富的生产工人，先进的生产技术和设备，执行严格的质量工艺标准，保证了产品质量和国际接轨。

三益的产品操作简单，高效耐用，节能环保，已经销往世界各地，如美国、澳大利亚、加拿大、新西兰、爱尔兰、俄罗斯、乌克兰、不丹、津巴布韦等20多个国家和地区。





# 大连三益机械有限公司

## DALIAN SANYI MACHINERY CO., LTD.

Sanyi produces the products with our own brand (**SANYI**), and also undertakes **OEM** and **ODM**.

Sanyi not only has **spot goods**, but also provides **customization service**.

Besides, Sanyi provides **on-site installation, debugging, after-sales service**, etc.

Sanyi's products focus on **environmental friendliness, energy efficiency, and high performance**. Sanyi is dedicated to **providing eco-friendly, energy-saving, and efficient irrigation system solutions** for agricultural production, promoting sustainable agriculture, and creating greater economic and social benefits for farmers.

Sanyi corporate spirit is: **Pursuit of excellence, Customer-centricity, Unity, cooperation, and Sustainable development**. These values have guided our R&D, production, sales, management, and service efforts for over 30 years, inspiring us to continuously innovate, improve product quality, create greater value for our customers and society, contribute to the green transformation and the improvement of agriculture, and provide high-quality products for the irrigation systems of farmlands worldwide!

三益既做自己品牌的产品（SANYI），也承接授权贴牌生产（OEM）和设计贴牌生产（ODM）。

三益既有现货，也为客户提供定制服务、现场安装、调试服务，售后服务等。

三益的产品聚焦于环保、节能和高效。致力于为农业生产提供环保、节能、高效的喷灌系统解决方案，以促进农业的可持续发展，并为农民创造更大的经济效益和社会效益。

三益的企业精神是追求卓越、客户至上、团结协作和可持续发展。这些价值观贯穿于我们30多年的研发、生产、销售、管理、服务工作中，激励我们不断创新、提升品质，并为客户和社会创造更大的价值，为推动农业的绿色转型和提升，为全世界农田灌溉贡献优质产品！

# Sanyi Service

## —— 三 益 服 务 ——

Sanyi produces the products with our own brand (SANYI), and also undertakes OEM and ODM.

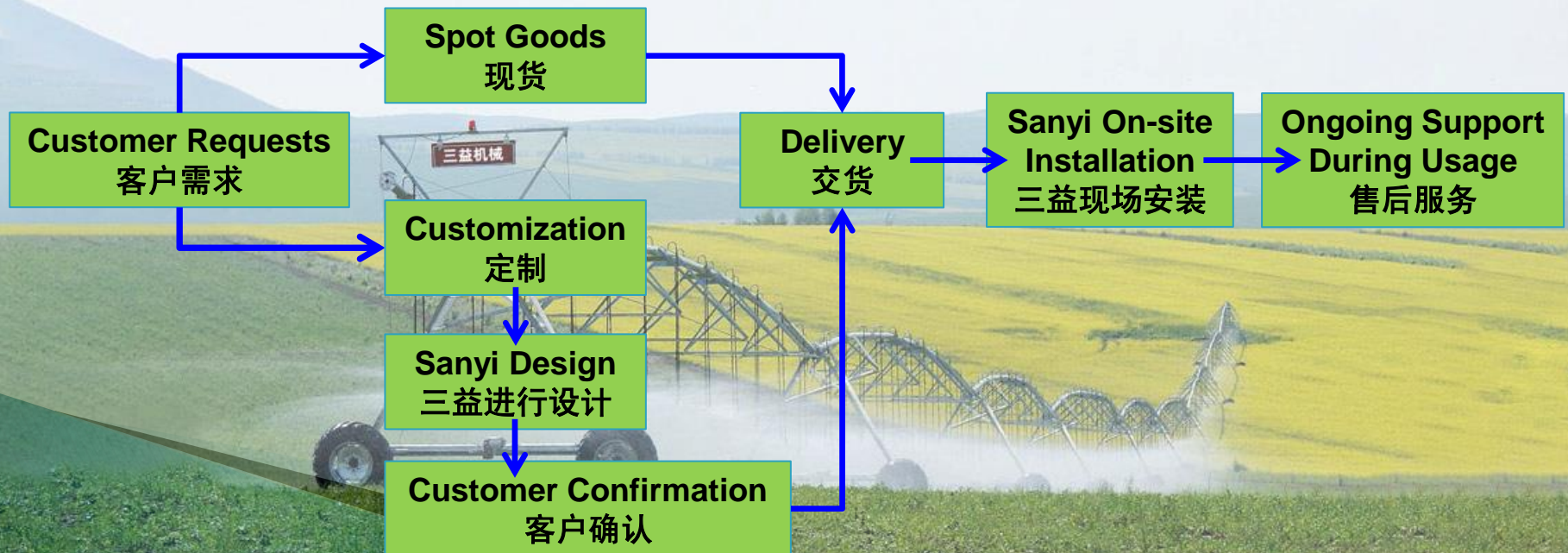
Sanyi not only has spot goods, but also provides customization service. We tailor suitable solutions for the customers based on factors such as farm size, topography, slope, soil, crop, water source location, water quality, control mode, drive mode, climate, and cost.

Upon delivery to the specified location, Sanyi provides on-site installation, commissioning services, and ongoing support to address any issues that may arise during usage.

我们既做自己品牌的产品（SANYI），也承接授权贴牌生产（OEM）和设计贴牌生产（ODM）。

我们既有现货，也可以为客户提供定制服务。根据客户田地的大小、地形、坡度、土质，农作物种类，水源位置、水质，控制方式，驱动方式，气候，成本等制定出合适的方案供客人选择修改。

产品到达客户指定地点后，我们提供现场安装、调试服务，并随时为客户解决使用过程中遇到的各种问题。





# Workshop of Irrigation System

—— 灌溉系统生产车间 ——



**Strong Team**

强大的团队

**Strict Standards**

严格的标准

**Advanced Technology**

先进的技术

**Advanced Equipment**

先进的设备

**Rigorous**

**Quality Management**

严格的质量管理

**Premium-grade**

**Materials & components**

优质的材料和组件





# Advanced Production Line

— 先进生产线 —





# Products Line of Sanyi

— 三 益 产 品 —



**Center Pivot  
Irrigation System**  
中心支轴喷灌机



**Towable  
Irrigation System**  
牵引式喷灌机



**2-wheel Linear Move  
Irrigation System**  
2轮平移式喷灌机



**4-wheel Linear Move  
Irrigation System**  
4轮平移式喷灌机



**Linear and Rotating  
Irrigation System**  
平移回转喷灌机



**Hose Reel  
Irrigation System**  
卷盘式喷灌机



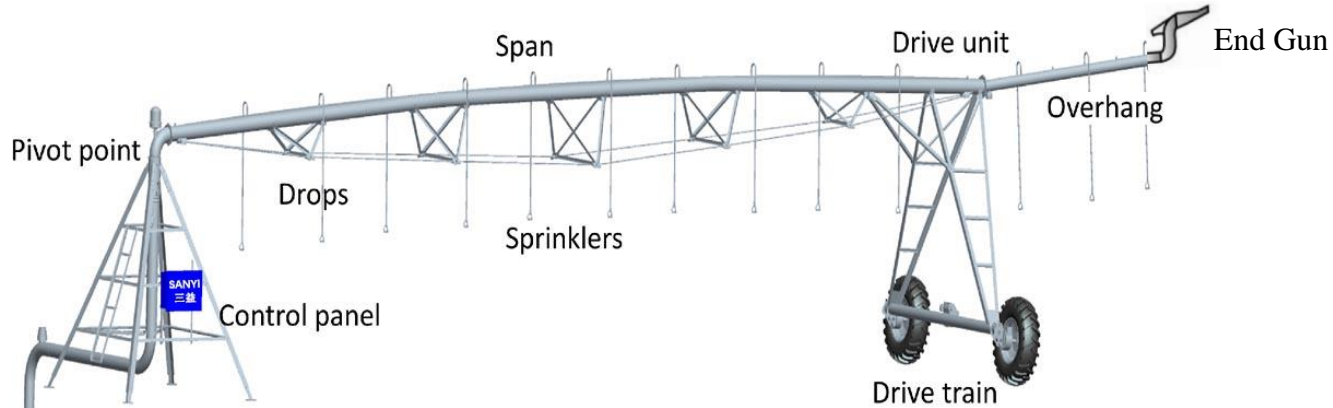
**Fertigation System**  
水肥一体机



**Parts & Accessories**  
喷灌机零件和配件

# Products Line of Sanyi

## — 三 益 产 品 —



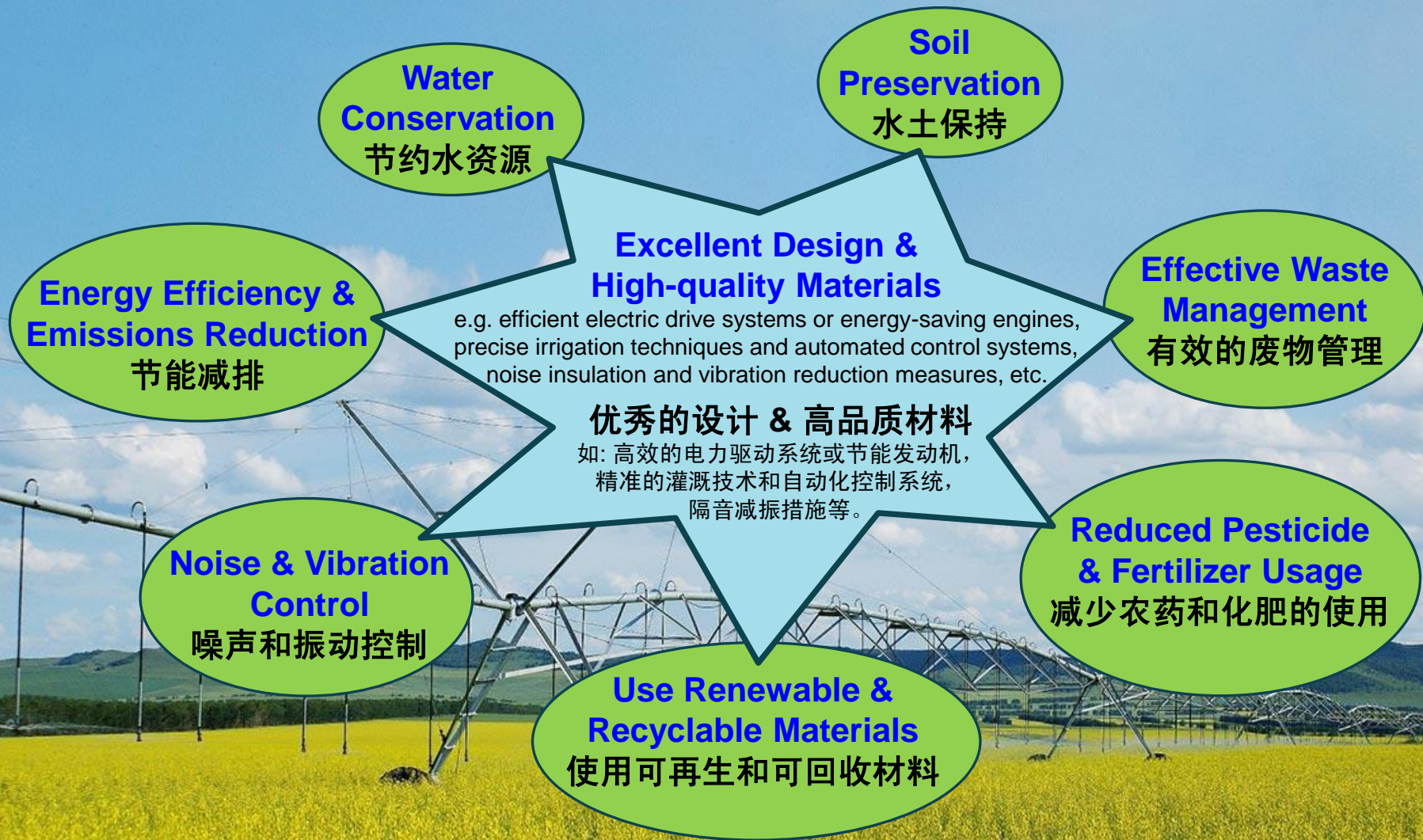
Item 项目	Optional Specification 可选规格
Machine Length 机长	According to actual need 根据实际需要
Machine Height 机高	Low profile, Standard profile, High profile, Super High, Custom 低, 标准, 高, 超高, 定制
Maximum Slope 坡度	30%
Power Supply 供电方式	grid electricity, solar power, and generators (diesel generator, diesel engine pump combination) 公电, 太阳能, 发电 (柴油发电机, 柴油机水泵一体)
Irrigation Time 灌溉时间	0~24hr/day (0~24小时/天)
Control panel 主控箱	1. Standard control panel 标准主控箱
	2. PLC intelligent control panel 智能主控箱
	3. Universal network control panel 全能型网络主控箱
	4. Standard intelligent network control panel (can be used independently) 标准智能网络主控箱 (可独立使用)
Riser Diameter 上水管直径	10", 8", 6-5/8", 5-9/16" (254mm, 203mm, 168mm, 141mm)
Span Pipe diameter & Unit Span length 主管直径和单跨体长	8-5/8": 1355.91" ~ 1620.08" (219mm: 34.44 ~ 41.15m) 8": 1355.91" ~ 2159.84 (203mm: 34.44 ~ 54.86m) 6-5/8": 1355.91" ~ 2411.81" (168mm: 34.44 ~ 61.26m) 5-9/16": 1620.08" ~ 2411.81" (141mm: 41.15 ~ 61.26m)
Span Pipe Thickness 主管厚度	1/8" (3.2mm)
Span Pipe Material 主管材质	Hot-dip galvanized steel pipe 热镀锌钢管 304 stainless steel pipe 304 不锈钢管 Aluminum alloy pipe 铝合金管 Hot-dip galvanized steel pipe with poly-lining 带内衬钢管
Overhang Length 悬臂长	11' to 88' (3.35m to 26.82m)

Item 项目	Optional Specification 可选规格
End Gun 喷枪	Nelson SR75, SR100, SIME 10497, China 50 model (国产50型),
Sprinkler type 喷头	Nelson R3000, D3000, O3000 / Senninger
Sprinkler spacing 喷头座距	2.2 ~ 4m (quantity: 2-3pcs Sprinkler/pipe) (数量: 2-3个喷头/主管)
Tracking Configuration 车轮数	2, 3 or 4-Wheel
Tire 轮胎	11.2" x 22.5", 11.2" x 24.5", 11.2" x 24", 11.2" x 38"
	14.9" x 24", 16.9" x 24", 12.4" x 38" Radial
Alignment 同步控制装置	Standard alignment for machines up to 1500 ft (457 m) long 标准款: 适用于长达 1500 ft (457 m) 的机器。
	Modified Alignment for machines 1500 ft to 2000 ft (457 m to 610 m) long. 加强款: 适用于长度为 1500 ft 至 2000 ft (457 m 至 610 m) 的机器
	Pivot Floating Alignment for machines 2000 ft to 2800 ft (610 m to 853 m) long. 浮动对齐款: 适用于长度为 2000 ft 至 2800 ft (610 m 至 853 m) 的机器。
Drive Unit 驱动单元	STANDARD for crop height range within 2.9m 标准驱动单元: 适用的作物高度范围2.9 米
	LOW for crop height range within 1.8m 低驱动单元: 适用的作物高度范围1.8 米
	HIGH & SUPER-HIGH -HIGH for crop height range within 3.9m, SUPER-HIGH for crop height range within 4.7m 高和超高驱动单元: 高驱动适用的作物高度范围3.9 米, 超高机驱动适用的作物高度范围4.7 米
Corner Arm 地角臂	Available 可选



# Environmental Friendliness

—— 注 重 环 保 ——





# Wide Applicability

—— 适用广泛 ——

**Suitable for:** Field, Vegetable,  
Orchard, Garden,  
Trees, Pasture, etc.

适用于：农田，蔬菜，  
果园，花园，  
林木、牧场等。



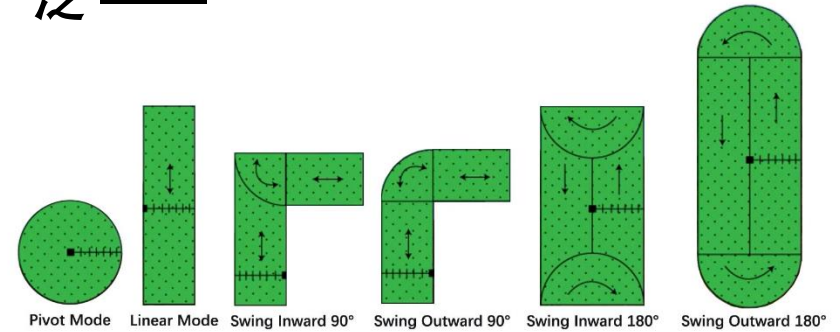


# Wide Applicability

—— 适用广泛 ——

Suitable for **Various**  
**Terrains & Occasions**

适用于各种地形和场合。



**Obstacle**  
障碍物





# Package & Delivery

## — 包装 & 发货 —

Our products are **simple operation**, **high efficiency**, **durability**, and **energy-saving** features. The products have been exported to over 20 countries and regions worldwide, including the United States, Australia, Canada, New Zealand, Ireland, Russia, Ukraine, Bhutan, and Zimbabwe, etc.

我们的产品操作简单，高效耐用，节能环保，已经销往世界各地，如美国、澳大利亚、加拿大、新西兰、爱尔兰、俄罗斯、乌克兰、不丹、津巴布韦等20多个国家和地区。





# Sanyi Culture

## — 三益企业文化 —

### 三益的使命

提供全球农业灌溉解决方案  
通过创新技术和卓越品质提升农业生产效率  
保护水资源，促进可持续农业发展

### Sanyi Mission:

Providing global agricultural irrigation solutions  
Enhancing agricultural productivity through innovative technologies and excellent quality  
Protecting water resources and promoting sustainable agricultural development

### 三益的优势

#### 强大的研发团队

技术精湛，持续推动产品创新和改进

#### 先进的制造工艺

采用高品质材料和先进设备，  
确保产品质量和性能

#### 成熟的服务体系

从产品选型到安装、使用，  
为客户提供全方位支持

### Sanyi Advantages:

#### Strong R&D Team:

Technically skilled, continuously driving product innovation and improvement

#### Advanced Manufacturing Processes:

Utilizing high-quality materials and advanced equipment to ensure product quality and performance

#### Mature Service System:

Providing comprehensive support to customers, from product selection to installation, usage.

### 产品与解决方案

#### 大型喷灌机

覆盖广泛的农田面积，  
提供精确的灌溉技术

#### 智能控制系统

实时监测和调节灌溉过程，  
提高效率和节水性能

#### 定制化解决方案

根据客户需求，提供定制化的  
喷灌系统设计和支持

### Products and Solutions:

#### Large-scale Irrigation Machines:

Covering extensive agricultural areas, providing precise irrigation technology

#### Intelligent Control Systems:

Real-time monitoring and adjustment of irrigation processes, enhancing efficiency and water-saving capabilities

#### Customized Solutions:

Offering tailored irrigation system designs and support based on customer requirements

# Some Certifications

## 三益的一些认证

### Certificate of Membership

Presented to

**Dalian Sanyi Machinery Co., LTD.**

In recognition of support for

**2017**



*Gregory R. Hunter*  
Gregory R. Hunter  
2016-2017 IA President  
*Deborah M. Hamlin, CAE, FASAE*  
Deborah M. Hamlin, CAE, FASAE  
IA Chief Executive Officer

CERTIFICATE No. CMLN21011328880

#### EC- ATTESTATION CERTIFICATE OF MD & LVD

**GTS**

Client	: Dalian Sanyi Machinery Co., Ltd.
(Name & Address)	: No. 128 Yingshun Road of Lvshunkou District, Dalian, China
Manufacturer	: Dalian Sanyi Machinery Co., Ltd.
(Name & Address)	: No. 128 Yingshun Road of Lvshunkou District, Dalian, China
Description of Product (s)	: Irrigation Machine
Model(s)	: DYP, DPP, DWP
Trademark	: SANYI
Assessment Performed	: Conformity to Annex I's Applicable Paragraphs of Machinery Directive 2006/42/EC and Low Voltage Directive 2014/35/EU
Standard(s) Referenced	: EN ISO 12100:2010, EN 60204-1:2018
Conditions Subject to Issue	: Acceptance of information detailed in technical file MD-TCF-210113-28880 referenced against job file ISO411-8998
Declaration	: In the opinion of GTS the submitted technical file MD-TCF-210113-28880 satisfies the requirements of the Machinery Directive 2006/42/EC Annex-VII & Low Voltage Directive 2014/35/EU
Assessor ID No.	: TR-IND-520
Date of Assessment	: 2021/01/13
Date of Issue	: 2021/01/28
Date of Expiry	: 2026/01/27

Test reports in technical file MD-TCF-210113-28880 and referenced against job file ISO411-8998 are reviewed and found to be acceptable. The CE mark as shown below can be used, under the responsibility of the manufacturer, after of an EU Declaration of Conformity and compliance with all relevant EU Directives.



This EC-Attestation Certificate is only valid for the equipment and configuration described in conjunction with the data detailed above. It refers only to the sample submitted to Global Testing Services Co., Ltd. for testing and certification. Any modifications made to the product shall immediately be reported to Global Testing Services Co., Ltd. office in order to examine whether this certificate remains valid. This certificate shall not be reproduced except in full without the written approval of Global Testing Services Co., Ltd.

Approved by: Hermann Weiber

For and on behalf of  
Shanghai Global Testing Services Co., Ltd.

Shanghai Global Testing Services Co., Ltd.  
E-mail: info@gts-joh.com http://www.gts-joh.com  
Floor 2nd, Building C-1, No. 128, Shesh Road, Wusheng District, Shanghai, China.



#### QUALITY MANAGEMENT SYSTEM CERTIFICATE

We hereby certify that the organization:  
**Dalian Sanyi Machinery Co., LTD**  
United social credit code: 92210212608528456  
is in conformity with Quality Management System Standard:  
**GB/T19001-2016 idt ISO9001:2015**  
The certificate is valid to the following products/service:  
**Manufacture of irrigation equipment (pivot and hose reel irrigation machine), mechanized agricultural machinery (fertilizer spreader, grinder)**  
Registration Address/Audit Address: No. 128 Yingshun Road, Lvshunkou District, Dalian City, Liaoning Province

Date of issue : 16-01-2022  
Date of next : 16-12-2022  
Date of expiry : 17-12-2025  
Date of first issue : 16-12-2019

*Zhao Xiang Dong*  
Issued By



The effectiveness of the Certificate is subject to GTS audits in the field. Meanwhile, the Certificate is subject to the CMAA website: www.cmaa.gov.cn or website of GTS (gts-joh.com) in order to be valid.

**National Standard Integration (Beijing) Certification Co., Ltd.**  
Address: Room 1708, East Zone, 18th Floor, Hu NTC Building, 60, Chaoyang District, Beijing, P.R. China 100020

NO-17



#### CERTIFICATE OF CONFORMITY OF QUALITY MANAGEMENT SYSTEM

NO. 01013Q10070R05

This is to certify that the quality management system of  
**DALIAN SANYI MACHINERY CO., LTD.**  
XIAOPINGDAO, LINGSHUI TOWN, GANJINGZI DISTRICT, DALIAN  
NO. 128 YINGSHUN ROAD, LVSHUNKOU DISTRICT, DALIAN, CHINA

POSTCODE: 116023  
Is in conformity with

**GB/T 19001-2008 / ISO 9001:2008 Standard**

The scope of activities covered by this certificate are defined below:

**TECHNICAL DEVELOPMENT, DESIGN, PRODUCTION  
AND SALES OF DRAINAGE & IRRIGATION EQUIPMENT**

Term of validity of this certificate: from JAN 23, 2013 to JAN 22, 2016 inclusive  
**Northeast Audit Co., Ltd.**

NO. 21-1 WENYI ROAD, SHENHE DISTRICT, SHENYANG CITY, LIAONING PROVINCE

Serial Name 1

Serial Name 2

Surveillance audits should not exceed 12 months. The certificate is invalid without attaching labels on schedule.

General Manager

Date: 01/23/2013



MANAGEMENT SYSTEM  
CNAS C010-Q

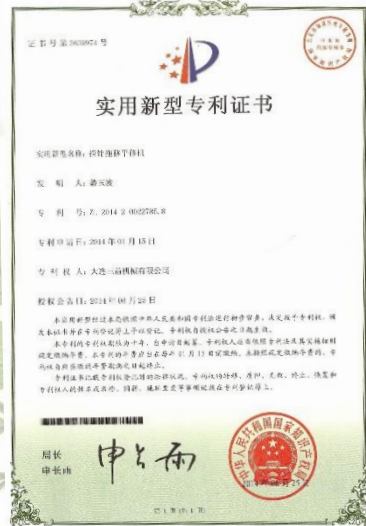
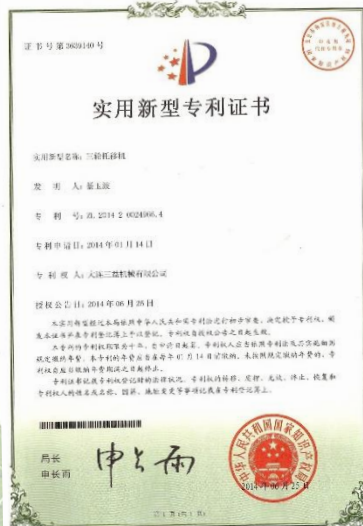
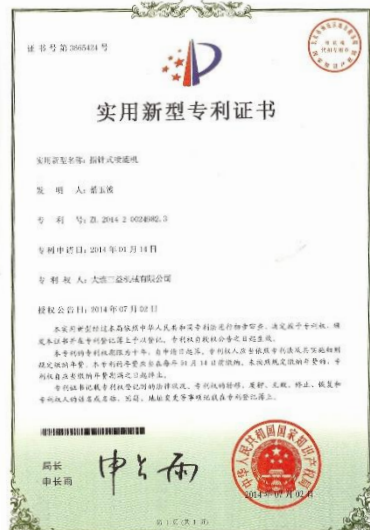






# Some Certifications

## —— 三益的一些认证 ——



**Patent for utility models of :**  
**DYP (Center Pivot irrigation)**  
**Towing machine (irrigation)**  
**DPP (Linear irrigation)**

by State Intellectual Property Office of  
the People's Republic of China

**Agricultural Machinery  
Test Appraisal Certificate  
of the Ministry of Agriculture  
of China**



# **Why choose products of Sanyi**

## **为什么要选择三益产品**



# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### 30 years' service life, rugged, efficient, and adaptable to most any field conditions

Truss and connector made of Hot-dip galvanized steel or galvanized steel, and High-quality products are used in control panel, motor, gearbox, sprinkler, tire, cable, end gun, etc.

### 30年使用寿命，坚固、高效，适应大多数现场条件

桁架和连接器采用热镀锌钢或镀锌钢制成。控制面板、电机、变速箱、喷头、轮胎、电缆、端枪等均采用优质产品。

### Pivot point has a remarkable sturdiness and stability which allow it to handle the movements of the machine smoothly.

中心点有非凡的坚固性和稳定性使其能够平稳地处理机器的运动。



### Customable height, length and pipe diameters based on actual crop and field conditions.

根据实际作物和田间条件可定制高度、长度和管径。

### Grid electricity, solar power or generators optional for power supply

多种供电方式，如市电、太阳能、发电机等。

### Poly-lined, stainless steel, aluminum, or galvanized pipe available

提供聚乙烯内衬管、不锈钢管、铝管或镀锌管

### All parts are exchangeable

所有零件均可更换





# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### HEAVY-DUTY PIVOT POINT

Hot-dipped galvanized steel legs and heavy-duty cross members form a sturdy foundation.

### 重型中心点

热浸镀锌钢腿和重型横梁构成坚固的基础。



**Total length of machine up to about 800m**  
喷灌机总长可达800多米

**High-quality tire is Longevity and Cost-effectiveness and ensures optimal traction and stability in all field conditions.**

高品质轮胎使用寿命长、成本效益高，可确保在所有场地条件下实现最佳牵引力和稳定性。





# Sanyi Products Features

## —— 三益喷灌机的特点 ——

The core structure is made from hot-dip galvanized steel pipes, angle steels, steel plates, round steels, etc.

Robust, Reliable and Durable

Can overcome slopes of  $\leq 30^\circ$

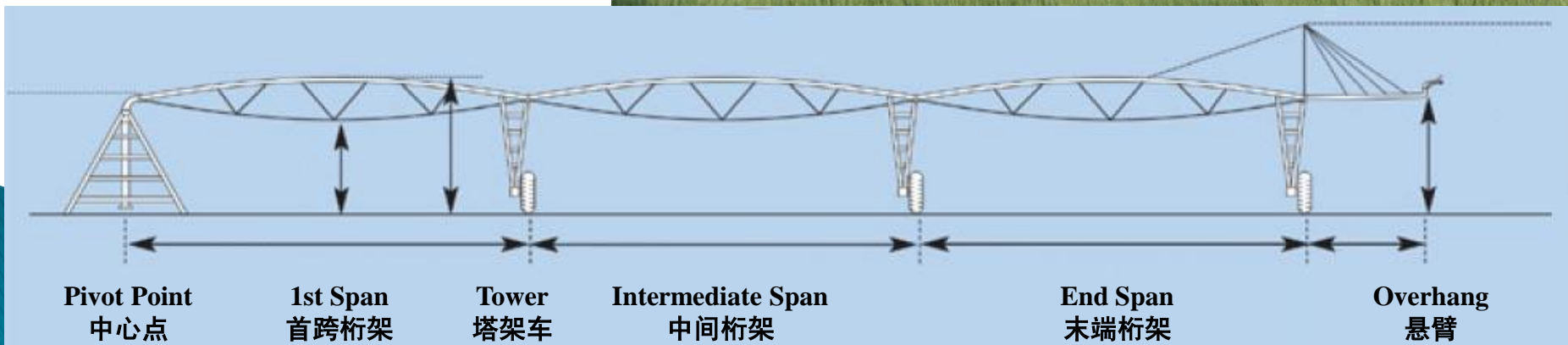
Easy operation, Unmanned management

核心结构由热镀锌钢管、角钢、钢板、圆钢等制成。

坚固、可靠、耐用

可克服 $\leq 30^\circ$ 的斜坡。

操作简便，无人化管理。



# Sanyi Products Features

## —— 三益喷灌机的特点 ——



**Hot dip galvanized steel pipe with poly-lined**  
**内衬热镀锌钢管**

**Natural Rubber Lining**

**Suitable for special water quality, fertilization and chemical irrigation, solving pipe corrosion problems and extending equipment life.**

**天然橡胶内衬**

**适用于特殊水质和施肥及化学灌溉,解决管道腐蚀问题,延长设备寿命。**



**Galvanized Steel pipe**  
**镀锌钢管**

**Suitable to most water qualities, not suitable for special water qualities.**

**Suitable for large sprinkler irrigation machines, including center pivot irrigation, liner move irrigation, and towable irrigation.**

**适用于多数水质, 不适用于特殊水质。**

**适用于大型喷灌机, 包括中心支轴式、平移式、牵引式。**



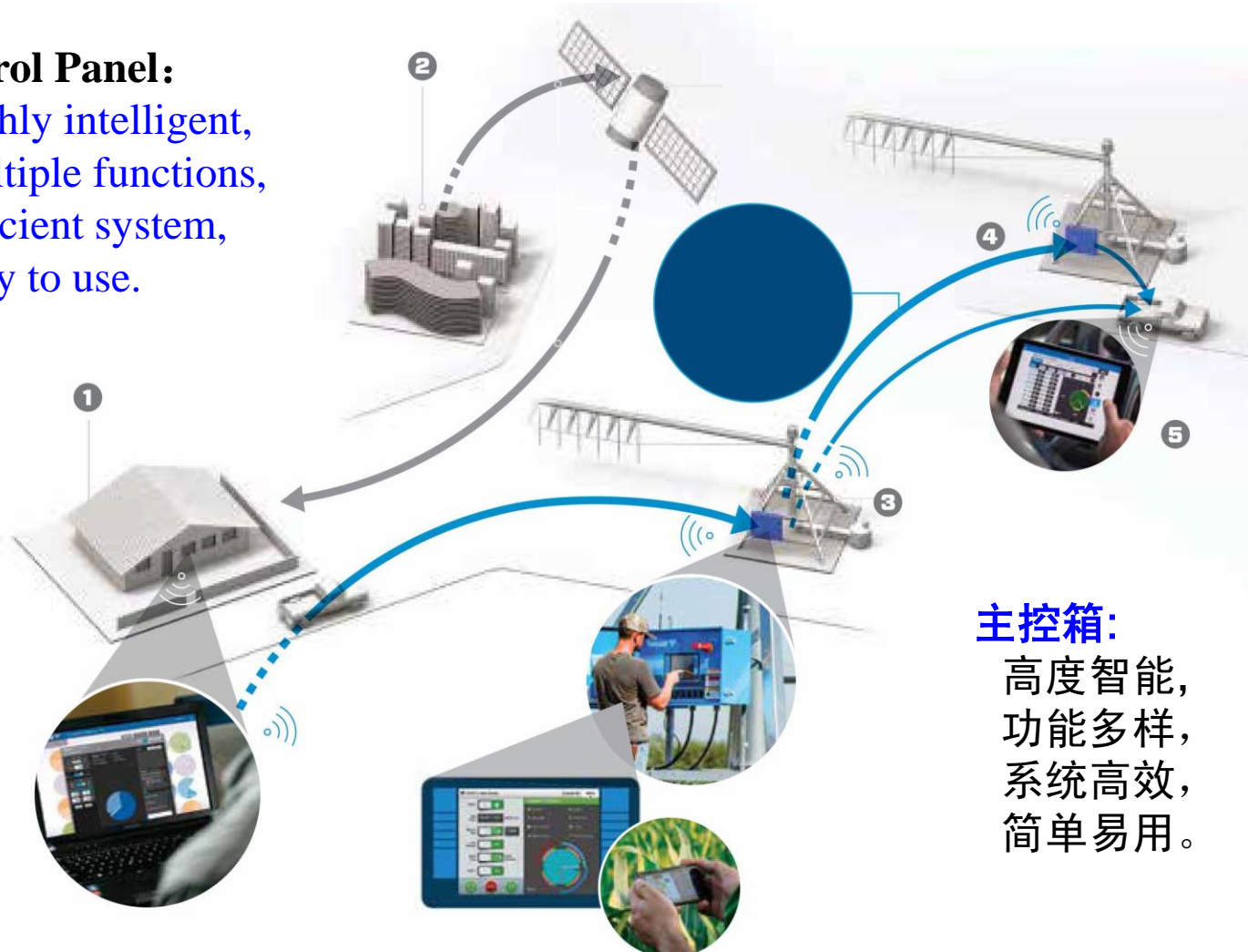


# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### Control Panel:

Highly intelligent,  
Multiple functions,  
Efficient system,  
Easy to use.



### 主控箱:

高度智能,  
功能多样,  
系统高效,  
简单易用。

# Sanyi Products Features

## —— 三益喷灌机的特点 ——

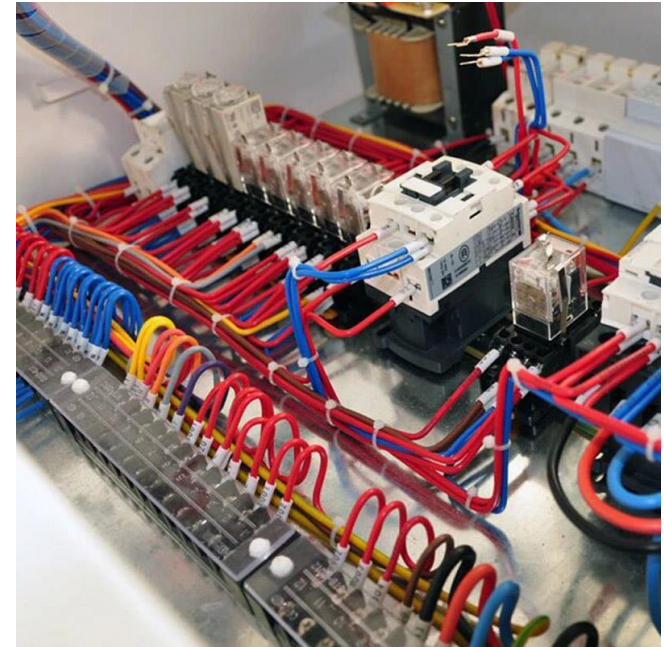
### Control Panel 主控箱

The control panel is a centralized interface that allows users to manage and monitor the operation of the machine. It typically consists of various buttons, switches, displays, and indicators that provide control and feedback for the irrigation process.

It serves as the central command center, allowing users to efficiently manage and monitor the irrigation process, ensuring accurate and effective water distribution for optimal crop growth.

主控箱是一个集中式界面，允许用户管理和监控机器的操作。通常由各种按钮、开关、显示器和指示器组成，为灌溉过程提供控制和反馈。

作为中央指挥中心，使用户能够有效地管理和监控灌溉过程，确保准确有效的配水，以实现最佳作物生长。



3 types of control panel mainly:

- 1> Standard Control Panel
- 2> PLC Intelligent Control Panel
- 3> Network intelligent irrigation control system

主要有3种主控箱：

- 1> 标准主控箱
- 2> 智能主控箱
- 3> 网络智能灌溉化控制系统





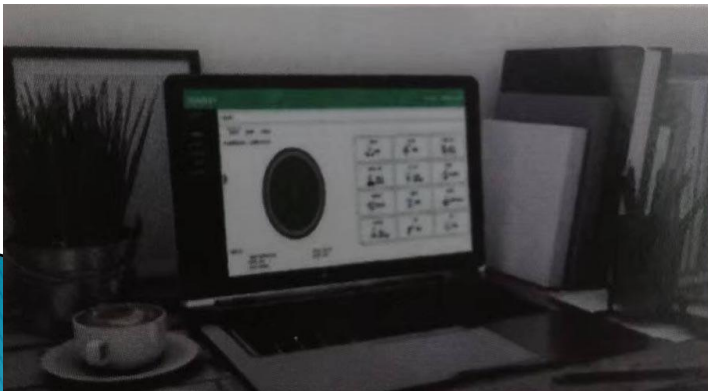
# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### Network intelligent irrigation control system

#### 网络智能灌溉化控制系统

1. GPS positioning system: Globally locate the accurate position of the machine and master the machine's operating status.
2. Rainwater sensor: counts rainfall
3. Antitheft sensor: monitoring machine
4. Remote operation of water pump by wireless controller
5. Meteorological sensors: record air temperature and humidity, wind speed and direction
6. Soil sensor: Statistics of soil temperature and humidity, monitoring crop root growth
7. Intelligent network control: can monitor the irrigation time and number of turns of sprinkler irrigation machines
8. Intelligent network control: can monitor the irrigation flow of sprinkler irrigation machines
9. Intelligent network control: can monitor the electricity consumption of sprinkler irrigation machines
10. Users can summarize and organize all relevant data in the backend
11. Real time fault alarm
12. Batch management and operation of equipment



1. GPS定位系统：全球定位机器准确位置，掌握机器运行状态。
2. 雨水感应器：统计降雨量。
3. 防盗传感器：监控机器。
4. 水泵无线控制器：远程操作水泵。
5. 气象传感器：统计空气温度与湿度，风速和风向。
6. 土壤传感器：统计土壤温度与湿度，监测作物根系生长情况。
7. 智能化网络控制：可监控喷灌机的灌溉时间和圈数。
8. 智能化网络控制：可监控喷灌机的灌溉流量。
9. 智能化网络控制：可监控喷灌机的用电量。
10. 用户后台可汇总整理所有相关数据。
11. 故障实时报警。
12. 设备批量管理与操作。

# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### Standard Control Panel 标准主控箱



1. Work status indication and real-time monitoring
2. Failure alarm
3. Span synchronization protecting function
4. Auto-stop of irrigation machine and water pump if water pressure is too low or if irrigation machine encounters some problem
5. Auto-start of water pump with the start of the machine
6. Digital display percentage table that allows to adjust the working rate
7. Indication of possible reasons for breakdown
8. Auto-stop if voltage is low/high
9. Auto-reverse function
10. Equipped with lighting arrester to prevent lighting stroke
11. Extreme temperature protection switch ( $<4^{\circ}\text{C}$ )

- 1、运行状态显示、实时监测自动化控制系统。
- 2、故障报警。
- 3、跨体同步安全保护功能。
- 4、水压过低或灌溉机遇到问题时，自动关闭喷灌机和水泵。
- 5、喷灌机启动时，自动启动水泵。
- 6、数字显示百分比表，调节喷灌机的运行速度。
- 7、显示喷灌机运行故障可能的原因。
- 8、电压过低或过高自动停机。
- 9、自动正、反向控制功能。
- 10、配备避雷器，防止雷击。
- 11、极端温度保护开关（ $<4^{\circ}\text{C}$ ）。



# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### PLC Intelligent Control Panel 智能主控箱



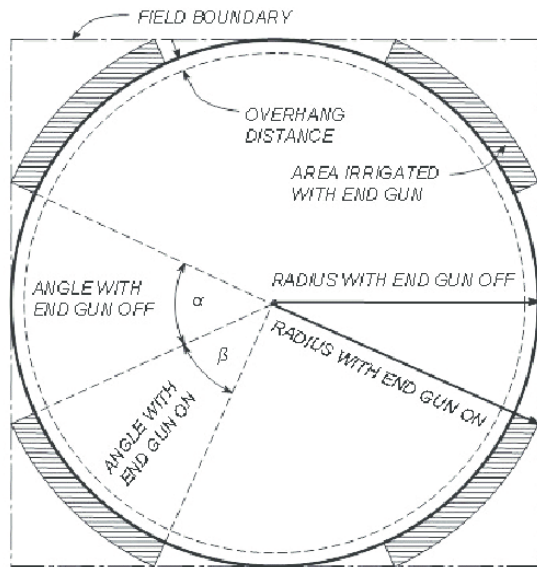
1. Including all functions of standard control panel
  2. Chinese or English LCD interface, diaphragm keyboard input
  3. Memory functions for irrigation speed, rain capacity, number of turns, irrigation time, etc.
  4. Optional installation: small agriculture meteorology station
  5. Optional installation: sensor of wind speed, rain capacity and soil dryness & humidity
  6. Function of sending alarm SMS to your mobile phone in case of breakdown
  7. Control of diesel generator, fertilizer and pesticide metering pump
  8. Encoder angle control for sector irrigation area, and reach accuracy of 0.1 degrees.
  9. Control of operating speed, irrigation settings, overhang, sprinkler and end gun start delay, electric valve control, etc.
- 1、包含了标准控制箱的全部功能。
  - 2、中文和英文液晶面板显示，薄膜键盘输入。
  - 3、记忆功能：记录灌溉速度、降雨量、转数、灌溉时间等。
  - 4、可以接入小型农业气象站的功能。
  - 5、可以接入风速、降雨量及土壤干湿度传感器。
  - 6、报警功能：故障停机时发送手机短信。
  - 7、对柴油发电机及肥料和药物计量泵的控制。
  - 8、对扇形区灌溉采用编码器角度控制，精度可达到0.1度。
  - 9、运行速度的控制、灌溉设置、悬臂的控制、喷头和喷枪启动延时的控制、电动阀门等的控制。

# Sanyi Products Features

## —— 三益喷灌机的特点 ——

**End gun extends the irrigation range and solves the corner issues.**

喷枪延长了喷灌范围，解决了边角喷灌问题





# Sanyi Products Features

## —— 三益喷灌机的特点 ——

Pivot irrigation system

Pivot tower wheelpaths 9 towers	Irrigated area 50 ha	Solar generator 525 × 200 Wp 105 kWp	Pivot 479 m	Pump systems 3 × PS21k CS-F85-20 Flow rate: 3,300 m <sup>3</sup> /day	Artificial canal 3 km
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System Components

The system has been designed with

**Solar Powered Solution**

太阳能供电



# Sanyi Products Features

## —— 三益喷灌机的特点 ——

### External Water and Fertilizer Integrated Device

Apply fertilizer and other crop protection products to your crops with center pivot or linear move system  
Fertilizer can be injected directly into a mixing tank, and spray to crops with water supply by sprinklers, enable you to maintain tight control of fertilizer application and costs.

Advantage of Sanyi fertigation system: economically, efficiently and environmental friendly.

### 外置水肥一体化装置

通过中心枢轴或线性移动系统向作物施肥和其他作物保护产品。

肥料可以直接注入混合罐中，并通过喷头以供水方式喷洒到作物上，使您能够严格控制施肥和成本。

三义施肥系统优势：经济、高效、环境友好。





# Some Products of Sanyi

## 三益的一些产品

# Center Pivot Irrigation System

—— 中心支轴式喷灌机 ——

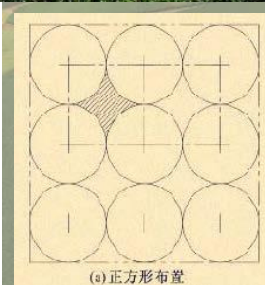


Also known as pointer sprinkler machine or circular sprinkler machine, is a sprinkler equipment that uses the center pivot as a circular point to achieve irrigation area through the length of the irrigation radius.

A water-saving and high-yield irrigation machinery that is connected to a rotating bend pipe through a rotating mechanism at the upper end and sprays water to crops through a spraying system on the truss.

又称指针喷头或圆形喷头，是一种以中心枢轴为圆形点，通过灌溉半径的长度来实现灌溉面积的喷灌设备。

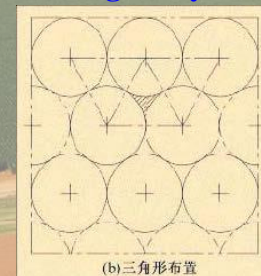
通过上端的旋转机构与旋转弯管连接，通过桁架上的喷水系统向农作物喷水的节水高产灌溉机械。



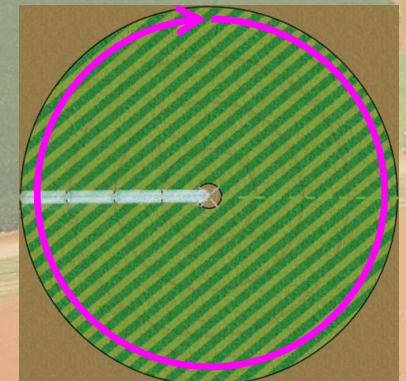
(a) 正方形布置

Square Layout

Triangle Layout



(b) 三角形布置



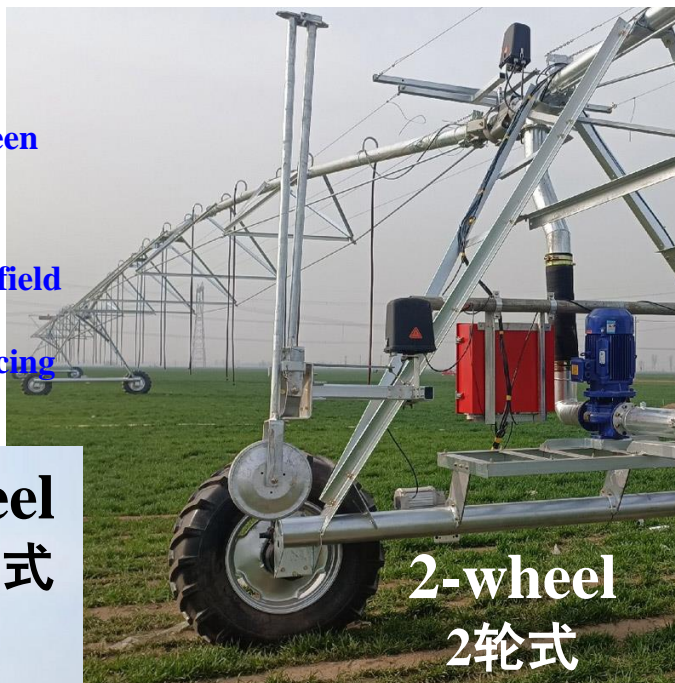


# Towable Pivot Irrigation System

## —— 牵引式喷灌机 ——

Towable Pivot Irrigation System is a movable pointer sprinkler irrigation machine, which can move freely between fields and is convenient for irrigation, thereby maximizing investment value.

Each machine can be towed from one field to another in a short period of time, achieving multi-purpose use and reducing equipment costs.



牵引式枢轴喷灌机是一种可移动的指针式喷灌机，可以在田间自由移动，灌溉方便，从而实现投资价值的最大化。

每台机器都可以在短时间内从一个农田拖到另一个农田，实现一机多用，降低设备成本。

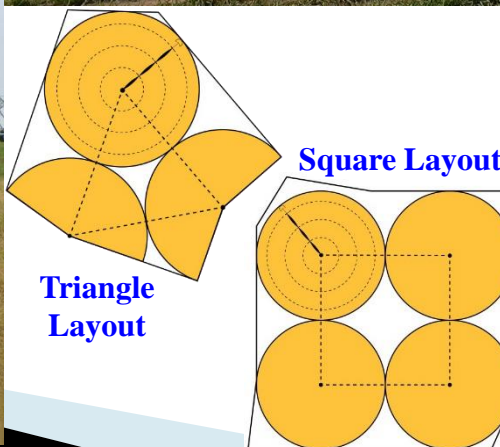
**4-wheel**  
**4轮式**

**2-wheel**  
**2轮式**

**More flexible than 4-wheel while wheel can turn around 360 degree.**  
**比4轮更灵活，轮子可以360度转动。**



**More stronger and firm than 3-wheel wheel can turn 90 degree only**  
**比3轮更坚固。车轮只能转动90度。**



**3-wheel**  
**3轮式**



# Pivot Irrigation System

—— 支轴式喷灌机 ——



**Pivot Irrigation Machine has a Wide Range of Applications, a Large Irrigation Area, High Cost-effectiveness, and is the primary choice for Water-saving and Income increase, as well as large-scale field irrigation.**

中心枢轴灌溉机适用范围广，灌溉面积大，性价比高，是节水增收、大田灌溉的首选。





# Linear move Irrigation System

—— 平移式喷灌机 ——

The machine works in linear movement by back and forth to irrigate rectangle area, and is called lateral move system or linear move system.

The length can be from 1 span to 18 spans normally.

Ideal for high-value crops that demand more control, delivering up to 98% coverage, more uniformity and precise control of water and chemical application.

Helps ensure a better crop quality and yield out of every acre for a higher return on your investment in production inputs.

Available with options for water supply, power source, and guidance systems to customize to your situation.



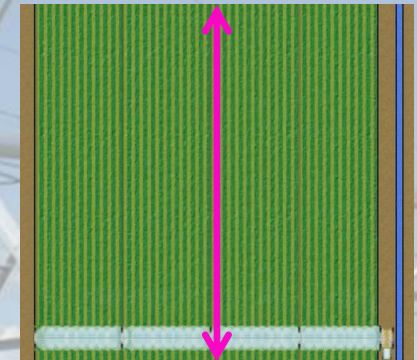
该机以往复直线运动的方式工作，对矩形区域进行灌溉，称为横向移动系统或直线移动系统。

长度通常可以从1跨到18跨。

非常适合需要更多控制的高价值作物，可提供高达 98% 的覆盖率、更均匀和更精确的水和化学品施用控制。

有助于确保更好的作物质量和每英亩的产量，从而为您的生产投入投资带来更高的回报。

提供供水、电源和引导系统选项，可根据您的情况进行定制。





# Linear move Irrigation System

—— 平移式喷灌机 ——

Item	2-wheel	4-wheel
Max. Length:	5 spans	24 spans
Suitable for:	small to medium sized rectangular field.	large sized rectangular field.
Water Supply:	Ditch-feed, Hose-feed; Center-feed, End-feed.	
Guide System:	Furrow, Angle Steel, Cable, GPS Position.	

项目	2 轮	4 轮
最大长度:	5 跨	24 跨
适用:	中小方形田地	大型方形田地
供水方式:	渠供, 拖管; 中心上水, 端上水。	
导向系统:	犁沟, 角钢, 线缆, GPS定位	





# Linear move Irrigation System

—— 平移式喷灌机 ——

2-wheel  
2轮式



4-wheel  
4轮式



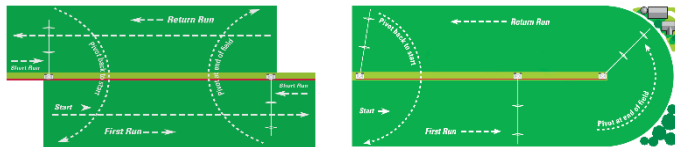
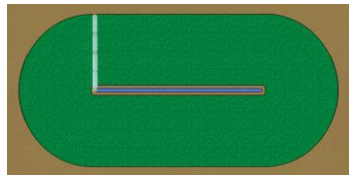
# Linear & Rotating Irrigation System

## —— 平移回转式喷灌机 ——

This is a universal sprinkler irrigation machine that integrates pointer type and linear move type. It not only move back and forth for irrigation, but also has the rotation function of the pointer machine.

Can irrigate square, rectangular or unusually shaped field, allowing lateral irrigation and making the turn possible by pivoting at one or more points, internal or externally.

Maximizing the effective irrigation utilization of field.



这是一款集指针式和直线移动式于一体的通用型喷灌机。它不仅可以前后移动进行灌溉，还具有指针机的旋转功能。

可以灌溉方形、矩形或不规则形状的田地，允许横向灌溉，并通过在内部或外部的一个或多个点旋转来实现转弯。

最大限度地提高田间的有效灌溉利用率。





# Integrated Sprinkler Irrigation Machine With Water And Fertilizer

## ——水肥一体化喷灌机——



**Integrated water and fertilizer technology is a new agricultural technology that integrates irrigation and fertilization.**

**The integration of water and fertilizer is achieved by using a pressure system to mix soluble solid or liquid fertilizers in proportion with irrigation water. By using a controllable pipeline system for water and fertilizer supply, the water and fertilizer are integrated, and uniform, timed, and quantified irrigation is formed through pipelines, spray guns, and nozzles.**

**The integrated technology of water and fertilizer makes the fertilizer efficiency faster, which can avoid the volatilization loss caused by applying fertilizer to drier soil layers, and is beneficial for environmental protection and improving the utilization rate of fertilizer.**

水肥一体化技术是集灌溉和施肥于一体的农业新技术。

水肥一体化是利用压力系统将可溶性固体或液体肥料与灌溉水按比例混合，实现水肥一体化。采用可控管道系统进行水肥供给，实现水肥一体化，通过管道、喷枪、喷嘴形成均匀、定时、定量的灌溉。

水肥一体化技术，使肥效更快，可避免向较干燥的土层施肥造成的挥发损失，有利于环境保护和提高肥料的利用率。





# Hose Reel Irrigation System

## —— 卷盘喷灌机 ——

This system utilizes a hose reel mechanism to distribute water across fields, providing uniform coverage and effective watering for crops.

Its flexibility, ease of use, and water-saving features make it an ideal choice for optimizing crop growth and ensuring agricultural productivity.

该系统利用软管卷盘机构在田间分配水，为农作物提供均匀的覆盖和有效的浇水。

其灵活性、易用性和节水特性使其成为优化作物生长和确保农业生产力的理想选择。





# Powerroll Irrigation System

—— 滚移式喷灌机 ——

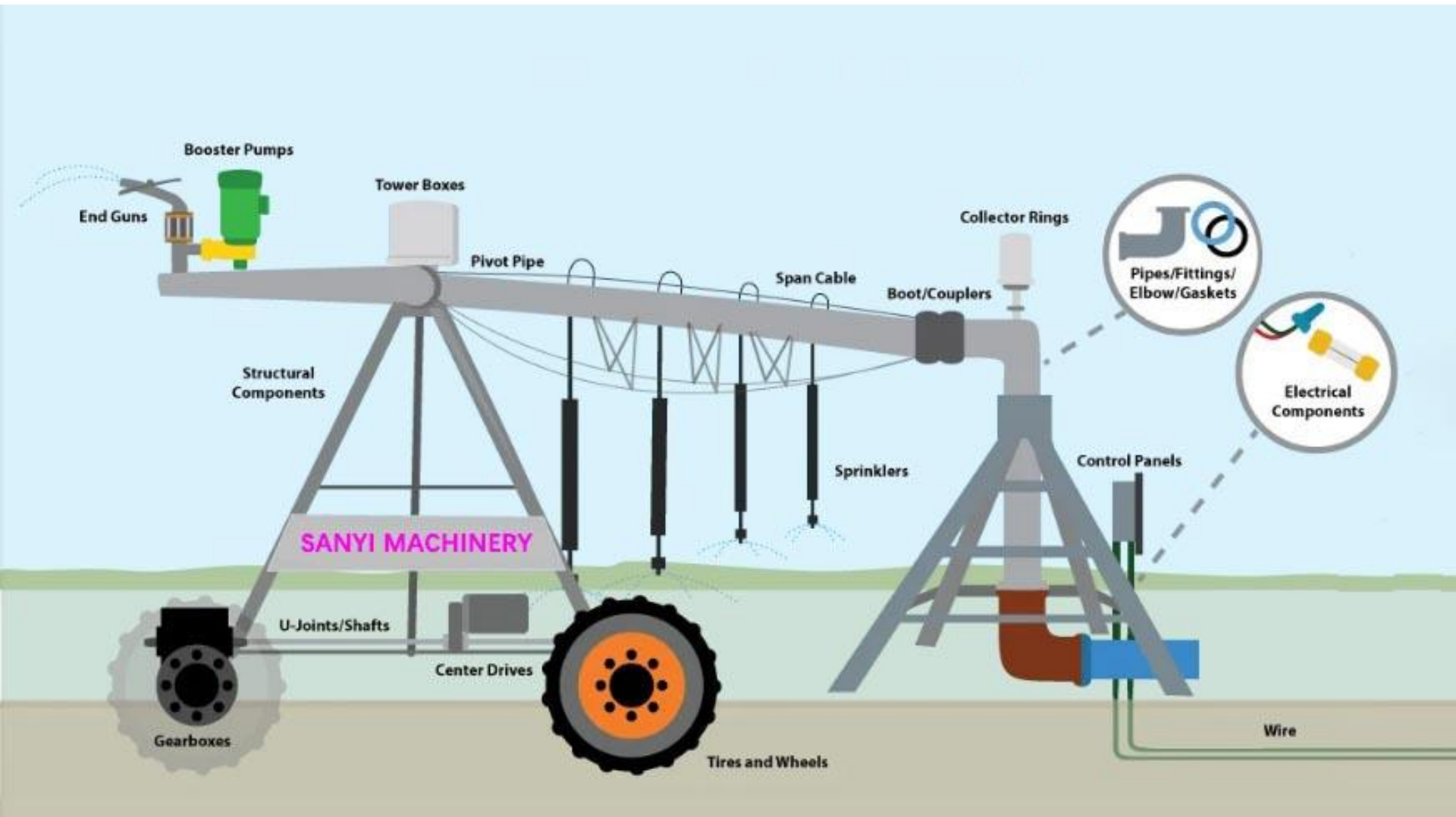
The Powerroll system is a self-propelled irrigation system that can be easily moved from one location to another, allowing for flexible irrigation across different fields without the need for extensive infrastructure.



滚移式喷灌机是一种自走式灌溉系统，可以轻松地从一個位置移动到另一个位置，无需大量基础设施即可在不同田地進行灵活灌溉。

# Components & Accessories

— 零 配 件 —





# Components & Accessories

— 零 配 件 —



Control Panel 主控箱



Poly-lined pipe 内衬管



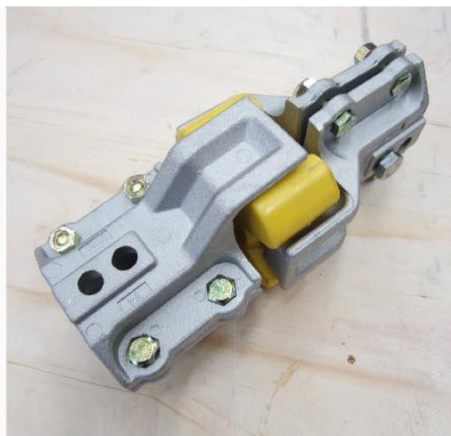
Hot galvanized parts 镀锌件



Collector Ring 集电环



Drive Motor 一级减速器



Coupler 联轴器



Gearbox 二级减速器



TIRE 轮胎

# Components & Accessories

— 零 配 件 —

11.2 X 24

Designed for limited hours on sandy soils

14.9 x 24  
for turf

14.9 x 24

16.9 x 24

11.2 x 38

14.9 X 24

Recommended for heavier and longer spans

16.9 X 24

Intended for longer spans, provides more flotation

11.2 X 38

Good clearance and flotation, narrow wheel track





# Components & Accessories

## — 零 配 件 —



14.9-24轮胎  
14.9-24 Irrigation Tire



14.9-24轮胎  
14.9-24 Irrigation Tire



角度位置开关  
Position and Angle Switch



保险接头  
Half Clamps and Rubber Gasket



不锈钢喉箍  
Hose Clamps



联轴器  
Coupler



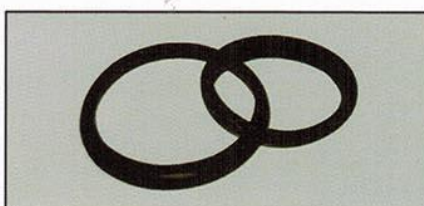
塔架控制盒  
Tower Box



PVC软管  
PVC Hose



软管接头  
Hose Bard



密封胶圈  
Gasket



防水垫片  
Pipe Flange Gaskets



主管出水口 3/4  
3/4-14 Tapered Pipe Tap



西美/尼尔森喷枪  
Spray and Nelson Gun



驱动装置  
Drive Unit



过滤器  
Filter



增压泵  
Booster pump



# Components & Accessories

## — 零 配 件 —



旋转式喷头

固定式喷头

考米特喷头  
Komet



Senninger旋转式/固定式喷头  
Senninger Sprinkler Head



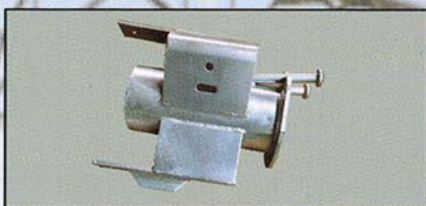
尼尔森D3000  
Nelson Sprinkler Head D3000



尼尔森R3000  
Nelson Sprinkler Head R3000



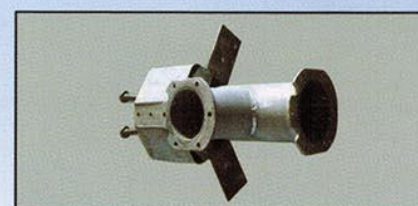
中心上水装置  
Central Water Supply



塔架接头  
Joint.TWR



鹅颈管  
Gooseneck



末端接头  
Joint.Last



电机  
Electrical Machinery



牵引式减速机  
Traction Reducer



非牵引式减速机  
Speed Reducer



减速机剖面图  
Cross section diagram of reducer





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**THANKS**