

中农丰茂植保机械有限公司介绍

Introduction Of Sino-Agri Fengmao Plant Protection Machinery Co., Ltd.



服务三农 共享发展
Sharing & Committed to Service Farmers, Agriculture and Rural Development

中农丰茂公司概况

Company profile for Sino-Agri Fengmao

- 中农丰茂植保机械有限公司（简称“中农丰茂”），是由隶属于“中国农业生产资料集团公司”的全资子公司“中农立华生物科技股份有限公司（股票代码 603970）”与有50多年历史的著名植保机械品牌“东方红”的拥有者“北京丰茂植保机械有限公司”共同出资成立，公司注册资本1亿元人民币。

Sino-Agri Fengmao Plant Protection Machinery Co., Ltd (referred to as “Sino-Agri Fengmao”), was jointly funded and established by Sino-Agri Leading Biosciences Co., Ltd. (stock code 603970), a wholly-owned subsidiary of China Agricultural Production Materials Group Corporation, and the company “Beijing Fengmao Plant Protection Machinery Co., Ltd.”, its brand Dong Fang Hong has more than 50 years of history is the most respected brand in the sector, with a registered capital of 100 million yuan.

- 是一家集技术开发、生产制造和销售服务及农业技术推广于一体的综合性植保机械企业，可为种植大户、家庭农场、农机合作社以及大型农场等提供最佳的植保解决方案。

We are comprehensive manufacturer of plant protection machinery, integrating technology development, manufacturing, sales and services. We provide the best plant protection solutions for large scale growers, family farms, agricultural cooperatives and industrial scale farms.

- 是果园全程机械化解决方案供应商以及农林业植保服务专业服务商。

Sino-Agri Fengmao is also a full-service mechanized solution provider for orchards and a professional service provider for agriculture and forestry services.

企业发展历程

Business development process

1964

研制生产出我国第一台背负式喷雾喷粉机，注册商标为“东方红”
Develop and produce China's first knapsack sprayer with the registered trademark “DongFangHong”

北京植保厂整体转让北京丰茂植保机械有限公司
Beijing Plant Protection Plant was acquired and rename Beijing Fengmao Plant Protection Machinery Co., Ltd.

1997

2002

生产悬挂式喷杆喷雾机
Began to produce mounted boom sprayer

2009

研制出中国第一台自走式高杆作物喷杆喷雾机和自走式旱田作物喷杆喷雾机
Designed and produce China's first self-propelled boom sprayer for high crops and self-propelled boom sprayer for dry crop

2008

主要生产背负式手动喷雾器和背负式机动喷雾机，开始与西班牙菲迪合作，引进技术
We began decade-lone cooperate with Spain Fede and introduce advance technology to Chinese market .

2011

与意大利、法国等国际知名公司合作，引进先进的植保机械技术，开始生产大型植保机械
Begin to cooperate with major Italy and France companies and kept introducing the advanced plant protection technology, and began to produce larger size plant protection machinery.

2016

与中农立华生物科技股份有限公司共同出资，成立中农丰茂植保机械有限公司
Co-funded with Sino-Agri Leading Biosciences Co., Ltd. (SAL) , established Sino-Agri Fengmao Plant Protection Machinery Co., Ltd

荣誉资质

Honors and Qualifications

公司已通过ISO9001质量体系认证，是“中国植保学会植保机械与施药技术专业委员会”委员，农业部“全国农业药剂药械实验推广应用协作网”理事单位，“中国农业机械化协会”、“中国农业机械工业协会”“中国农业机械流通协会”的理事单位。

Our company has passed the ISO9001 quality system certification, we are a member of the "China Plant Protection Association Plant Protection Machinery and Pesticide Application Technology Professional Committee", Council of "National Agricultural Pharmaceuticals and Drugs Experiment Promotion and Application Cooperation Network" Council of "China Agricultural Mechanization Association", "China Agriculture Member of the Machinery Industry Association "China Agricultural Machinery Distribution Association".



五大业务板块 Five Business Sections



01



植保机械

Plant Protection Machinery

01: 农用植保无人机 Agricultural plant protection drones

02: 自走式喷杆喷雾机 Self-propelled boom sprayer

03: 牵引、悬挂式喷杆喷雾机 Trailed and mounted boom sprayer

04: 风送式喷雾机 Air blast sprayer

植保机械 Plant Protection Machinery

自走式喷杆喷雾机 Self-propelled boom sprayer



牵引、悬挂式喷杆喷雾机 Trailed, mounted boom sprayer



植保机械Plant Protection Machinery

风送式喷雾机Air blast sprayer



超低量喷雾器ULV Sprayer

item	Unit	3WFT-4	3WFT-45
Covering area	m ²	1650	1650
Dimension	mm	770×860×1300	770×860×1300
Weight	kg	36	36
Nozzle	pc	4	5
Spraying volume	L/h	4	5
Droplet diameter	μm	6-12, Max. less than 50	6-12, max. less than 50
Volume of water tank	L	35	35
Power voltage	V	AC 220V/380V	AC 220V/380V
Air compressor	HP	3/5.5	3/5.5



农用植保无人机Agricultural plant protection drones



自主飞行

Autonomous flights:

支持全称自主飞行控制，实现一键起飞，按照预定航线自动飞行以及自动降落；

Support full-range autonomous flight control, achieve one-button take-off, automatic flight according to the scheduled route and automatic landing;



精准喷洒

Precision spraying:

针对不同作物和作业环境，智能匹配飞行速度和喷洒流量，确保精准喷洒。支持避障停喷、断点续喷

Intelligent matching the flying speed and spraying flow rate base on the different crop and operating environment to guarantee the accuracy spraying. Support obstacle avoidance and continuous spraying after breaking point



智能规划

Intelligence programme:

手持地面站，支持不规则地块的快速测绘，自动完成航线规划，并根据作业需求，预设飞行和喷洒参数

Hand-held ground station, support rapid mapping of irregular plots, automate route planning, and preset flight and spray parameters according to different job requirements



Total weight (Exclude battery)	9.6KG	Optimum working speed	4--6m/s
Standard take-off weight	24KG	Max. working speed	10m/s
Max. effective take-off weight	25KG	Flight time	6--12min/flight/time
Power battery	12S intelligence battery	Max. falling speed	3m/s
Working altitude	2-4m	Max. flying speed	10m/s
Hovering endurance	No load ≥25min full load ≥7min	Max.tolerable wind power	Level 6
Hovering precision	Horizontal ±1.0m, Vertical ±0.5m	Maximum flight altitude	3500m



02



果园全程机械化 Orchard complete-chain machinery

01: 果园管理机械 Orchard management machinery

02: 风送式果林喷雾机 Air blast orchard sprayer

03: 果林喷雾机 Orchard sparyer

果园管理机械 Orchard management machinery



风送式果林喷雾机Air blast orchard sparyer



自走式多功能移动平台Self-propelled multi-functional mobile platform



03



鲜食玉米机械

Fresh Corn Harvester

01: 鲜食玉米收机 Fresh corn harvester

02: 鲜食玉米剥皮机 Fresh corn husker

鲜食玉米收获机（参股美国HAGOTH公司，引进国内）

Fresh Corn harvester (Working with our American partners to explore domestic market)



Item	Unit	Parameter
Dimension (length×width×height)	m	9.2×4.1×4.9
Rows	row	6
Matched power	Hp	325
Tire type	/	710/70 R38
Row space	cm	75
Grain bin volume	kg	9000
Unloading height	m	4
Quality of the whole machine	kg	21000 (idle)
Steering mode	/	Articulated steering
Driving mode	/	Rear wheel driving
Work efficiency	Chinese mu/12hours	300

鲜食玉米剥皮机Fresh corn husker



04



国际业务

Internaitonal business



国际业务 International business

- 凭借公司总部中国供销总社及中国农业生产资料集团的强大依托，资金背景雄厚，具有优质的政府、合作社采购项目资源，可搭建稳定的供应链，为国际市场客户提供优质的资源 and 产品服务。

Rely on the powerful and strong support from our Parent Company All-China Federation of Supply and Marketing Cooperatives and China National Agricultural Means of Production Group Corporation, we are abundant in research fund and able superior project resources from both public and private sector. We can provide best-in-class service and maintain stable supply chain for the international customers.



- 荷兰Beutech公司与我公司合作的农药污水处理系统项目已连续两年与黑龙江省政府采购项目签订多台采购合同，并成功应用在各下属县级植保服务站，获得省政府领导与客户的一致好评，并已作为示范站点，吸引了其他省市植保服务站与农村合作社的合作意向
- The pesticide sewage treatment system project, which was a cooperative project between Sino-agri and Beutech, a Netherland company, we have successfully signed the contract with Heilongjiang province continuously for two years with more than ten units of machines. The pesticide sewage treatment system has been successfully applied to the subsidiary county level plant protection station and gained consistent praise from government leaders and customers. The project has also been set as a demonstration and pilot station, with the successful and good results, we have already gained the cooperative intention from other cities and counties' government plant protection station.



05



智慧农场

Intelligent farm

1. 精准施药智能管理服务平台

Precision application intelligent management service platform

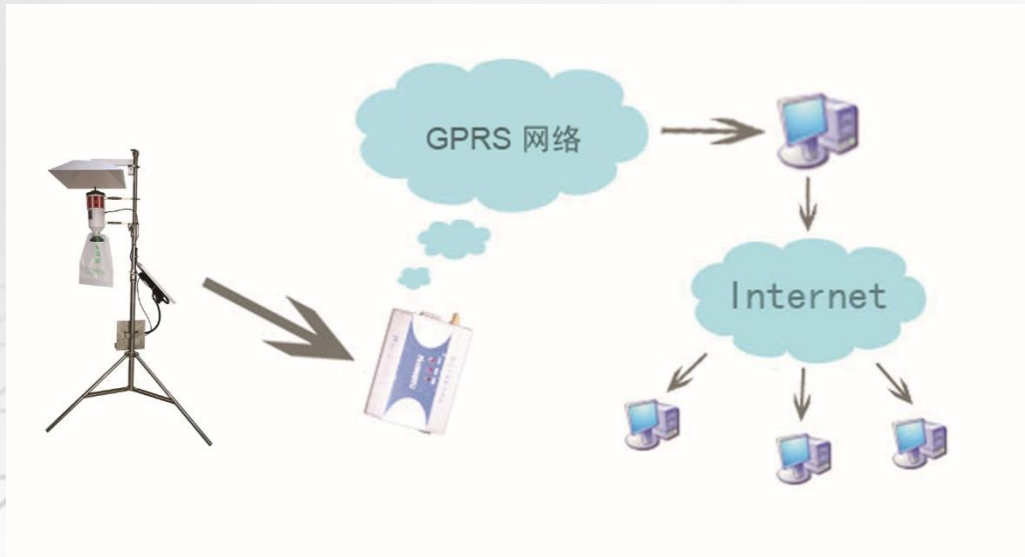
2. 农林病虫害监测与综合防治系统

Agriculture, forestry pest and disease monitoring and integrated control system

智慧农场 Intelligent Farm

精准施药智能管理服务平台是一个农业生产过程中对施药过程和结果进行精准控制和智能管理的服务平台，该平台对应农户、植保机械服务企业和管理部门分别具有作业管理、辅助维护保养服务、监测统计等功能。

The precise application intelligent management service platform is a service platform for precise control and intelligent management of the application process and results in the agricultural production process. The platform has corresponding operation management and auxiliary maintenance services for farmers, plant protection machinery service enterprises and management departments. , monitoring statistics and other functions.

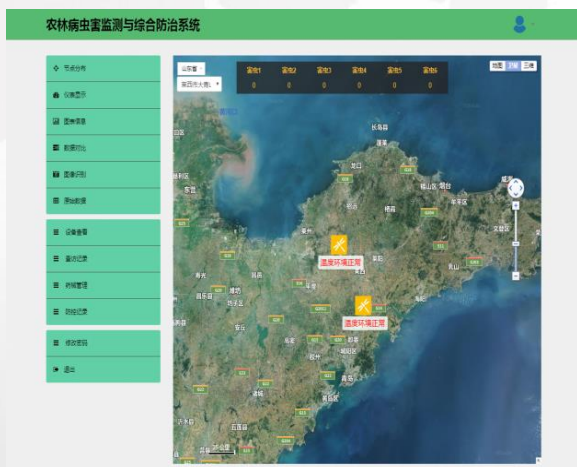




自动监测后台管理系统示意（数据源于其它害虫）



中国农资
SINO-AGRI



虫情预警



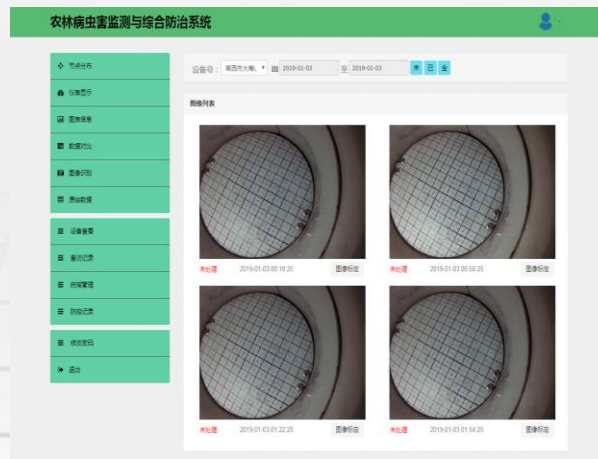
实时数据



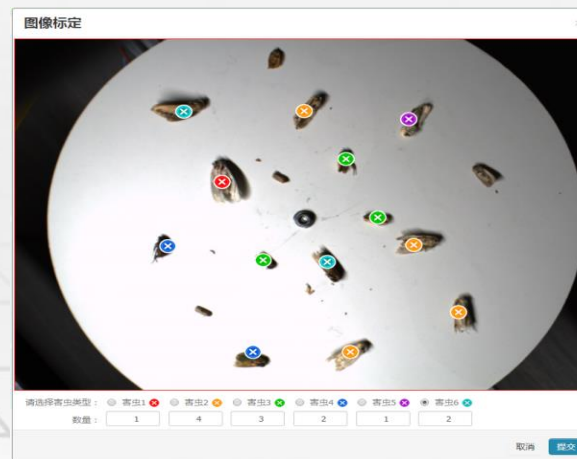
趋势分析

日期	虫害类型	虫害数量	虫害等级	虫害颜色	虫害形状	虫害大小	虫害位置	虫害时间	虫害地点	虫害原因	虫害处理
2019-01-03	虫害1	10	1	红色	圆形	1.0	10.0	10.0	10.0	10.0	10.0
2019-01-04	虫害2	20	2	黄色	方形	2.0	20.0	20.0	20.0	20.0	20.0
2019-01-05	虫害3	30	3	绿色	三角形	3.0	30.0	30.0	30.0	30.0	30.0
2019-01-06	虫害4	40	4	蓝色	菱形	4.0	40.0	40.0	40.0	40.0	40.0
2019-01-07	虫害5	50	5	紫色	星形	5.0	50.0	50.0	50.0	50.0	50.0
2019-01-08	虫害6	60	6	棕色	十字形	6.0	60.0	60.0	60.0	60.0	60.0
2019-01-09	虫害7	70	7	灰色	点状	7.0	70.0	70.0	70.0	70.0	70.0
2019-01-10	虫害8	80	8	白色	线状	8.0	80.0	80.0	80.0	80.0	80.0
2019-01-11	虫害9	90	9	黑色	面状	9.0	90.0	90.0	90.0	90.0	90.0
2019-01-12	虫害10	100	10	其他	其他	10.0	100.0	100.0	100.0	100.0	100.0

数据列表



虫体影像



智能识别

农林病虫害监测预警防治工作耗时、耗力，且信息化程度较低。本系统基于智能感知技术、无线通信技术及大数据分析技术，实现了农林病虫害高效诱捕、智能识别和实时监测。通过数据可视化技术，以直观的方式展示虫情数据，诱捕器空间地理分布，实现对农林病虫害空间分布、动态变化的可视化分析，为农林病虫害的预警、防治、管理等提供技术服务。

The monitoring and early warning of agricultural and forestry pests and diseases is time-consuming and labor-intensive, and the degree of informatization is low. Based on intelligent sensing technology, wireless communication technology and big data analysis technology, the system realizes efficient trapping, intelligent identification and real-time monitoring of agricultural and forestry pests and diseases. Through data visualization technology, the pest data is displayed in an intuitive way, and the spatial distribution of the traps is spatially analyzed to realize the visual analysis of the spatial distribution and dynamic changes of agricultural and forestry pests and diseases, and provide technical services for the early warning, prevention and management of agricultural and forestry pests and diseases.

精准施药智能监控平台组成架构示意



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