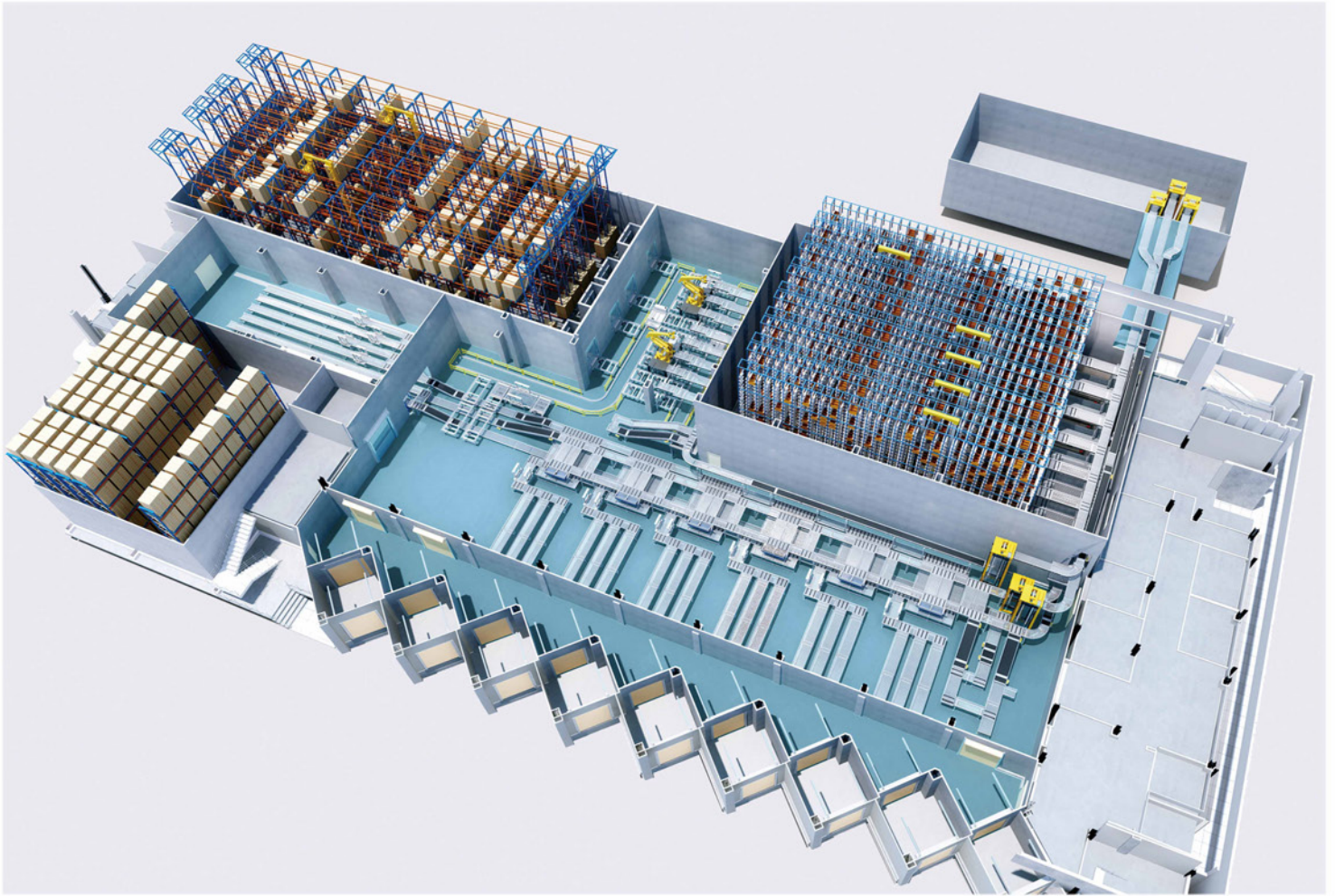


智能制造 系统解决方案供应商

SOLUTION OF INTELLIGENT LOGISTICS
AND WAREHOUSING SYSTEM



北自所
旗下品牌





北自科技简介

ABOUT US

北自所（北京）科技发展股份有限公司（简称“北自科技”）是北京机械工业自动化研究所有限公司（简称“北自所”）的控股子公司，以北自所原物流技术工程事业部为核心组建而成，旨在推动智能物流业务加速发展。

北自所成立于 1954 年，是我国较早研究和开发自动化物流技术的单位，从上世纪七十年代起一直致力于智能仓储物流技术的发展和运用，不断研发先进技术，积累设计施工经验，现已成为国内著名的物流系统集成商，处于国内领先地位，并成功走向海外。

北自科技至今已成功完成 800 多个自动化物流系统项目，业务链涵盖了从生产型物流、配送型物流到大型物流配送中心的全物流行业，提供集自动化、信息化、智能化于一体，涵盖加工、搬运、包装、仓储、配送等一系列环节的全面解决方案，已在制造业、食品、医药、纤维制造、家居、冷链等多行业领域成功应用实施，帮助众多企业突破智能制造瓶颈，促进企业向价值链高端延伸，加快了装备制造业智能化发展的步伐，“北自科技”已成为行业著名品牌。

RIAMB (Beijing) Technology Development Co., Ltd (R.T.D.) is one of the leading logistics system integrators in China. R.T.D. is originated from the Logistics Technology Engineering Department of RIAMB with the mission of accelerating the development of RIAMB' s intelligent logistics business, and is currently a subsidiary of RIAMB.

Established in 1954, RIAMB was among the first group of companies to research and develop automation and logistics technologies in China. The company is dedicated to the evolution and implementation of intelligent logistics and warehousing solutions, with continually innovated technologies and progressive experience. RIAMB has become a well-known logistics system integrator domestically, been predominant in domestic market and successfully expended its business internationally.

R.T.D. has become a well-known brand industry-wide and successfully delivered over 800 logistics automation system projects, serving the whole logistics industry from manufacturing logistics, distribution logistics to large-scale distribution centers. R.T.D. provides comprehensive solutions for various of manufacturing segments including processing, handling, packing, warehousing, delivering and etc., with integrations of automation, informalization and intelligentization, and now has been implemented in industries such as manufacturing, pharmaceutical, food, fabrics and, cold-chains. Hundreds of companies have broken its limitations in logistics automation field with the assistance from R.T.D., accelerated its path to achieve manufactural intelligentization, and therefore pursued higher enterprise values.



2[↑]

硕士学位授予点
Master's Degree Programs

2^本

中文核心期刊
Chinese Core Journals

4[↑]

国家级科研开发基地
National Scientific Research
and Development Bases

15[↑]

全国性行业组织
National Industry Organizations

70[↑]

智能制造项目
Intelligent Manufacturing Projects

800[↑]

成功案例
Successful Cases

北自科技针对不同行业客户的特点与需求，为客户设计开发出最合适的解决方案，有效帮助客户达到生产目标。

Based on the characteristics and demands of customers in different industries, R.T.D. designs and develops the most appropriate solutions for customers, which can effectively help customers to achieve the production target.



方案规划

Program Planning

以市场为导向 根据客户需求
精确规划设计 行业先进理念

Market-oriented

Based on the customers' demands

Precise planning and design

Advanced concepts of industry



设计选型

Design and Selection

效率仿真分析 客户角度出发

设计严谨科学 选型合理适用

Simulation analysis of efficiency

Rigorous and scientific design

Reasonable and suitable models



生产制造

Manufacturing

可靠的机械设备 精密的控制系统

先进的管理软件 专业的工程人员

Reliable machinery equipments

Sophisticated control systems

Advanced management software

Professional engineers



维护保养

Maintenance

及时有效沟通 远程诊断操作

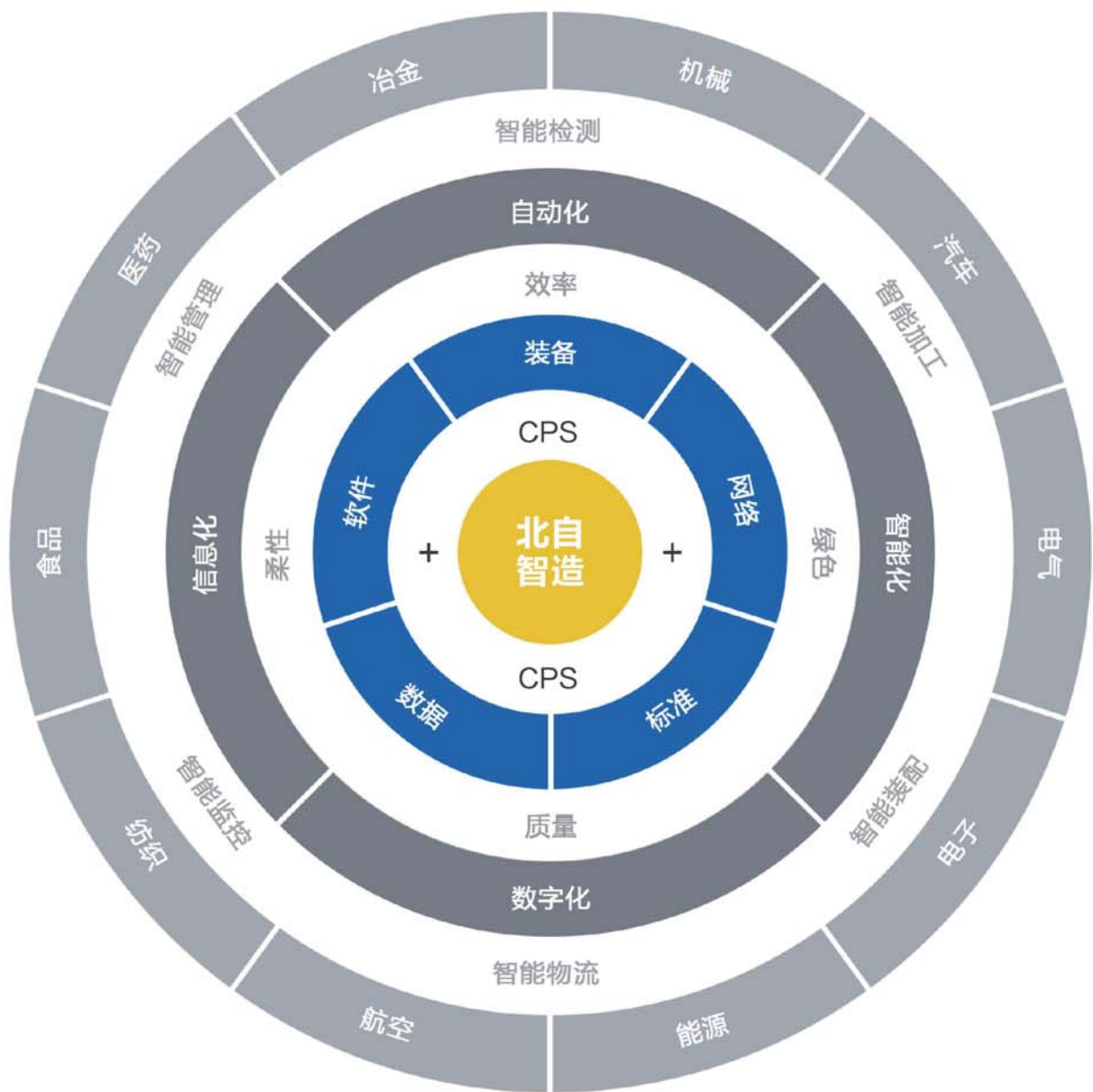
24H到场解决 终身跟踪维护

Timely and effective communications

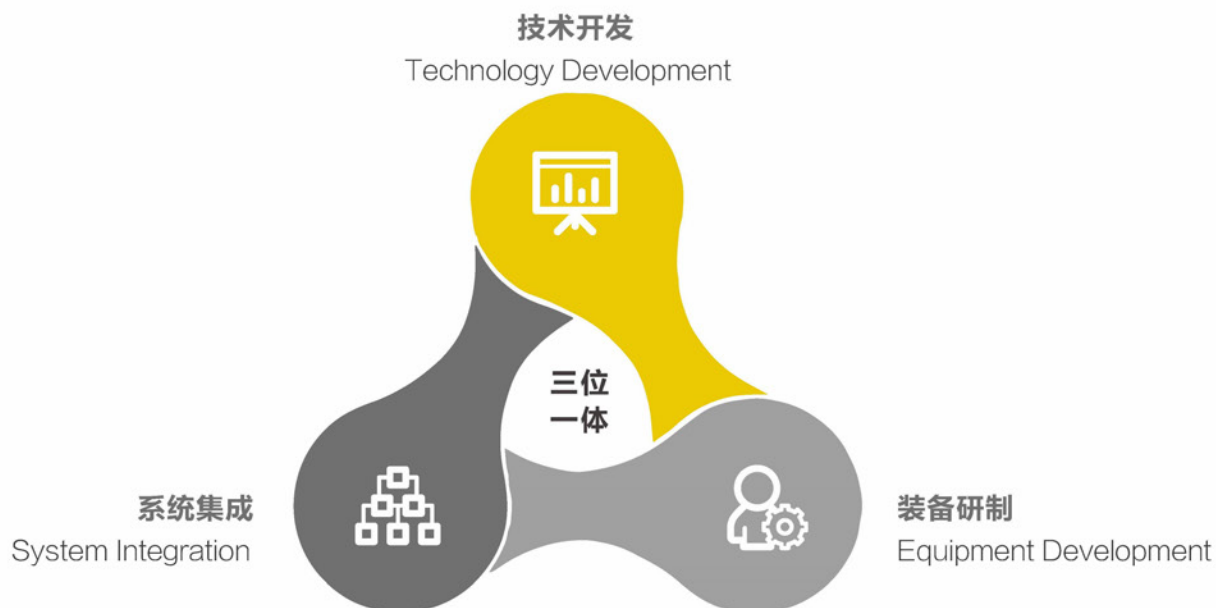
Remote diagnose operations

24h on-site solutions

智能制造 · 全面解决



构建智能制造系统生成体系



技术开发

Technology Development

开发关键核心技术

夯实智能制造基础

Develop key core technologies

Strengthen the intelligent manufacturing foundation



装备研制

Equipment Development

研究自主可控装备

掌握智能制造主动

Research autonomous controllable equipment

Master intelligent manufacturing initiative



系统集成

System Integration

多维多层融合集成

提供智能制造方案

Multidimensional & Multilevel fusion integration

Provide intelligent manufacturing scheme

智能制造综合标准化与新模式应用项目（部分）

企业名称	项目名称	年份
卓郎智能技术股份有限公司	卓郎新疆纺纱机械智能工厂	2018
青岛易邦生物工程有限公司	动物疫苗智能制造新模式应用	2018
徐州荣盛纺织整理有限公司	间歇式染整绿色智能工厂新模式应用	2018
中铁工程装备集团有限公司	先进轨道交通盾构机智能工厂	2018
美克国际家具用品股份有限公司	美克家居大规模个性化定制+智能制造（MC+FA）新模式应用项目	2018
用友网络科技股份有限公司	用友精智工业互联网平台试验测试	2018
义乌华鼎锦纶股份有限公司	全流程锦纶生产智能工厂	2017
江中药业股份有限公司	中药提取智能制造新模式	2017
南京熊猫电子装备有限公司	工业机器人制造数字化工厂	2017
中国铁建重工集团有限公司	轨道交通盾构机智能制造新模式	2017
福建华峰新材料有限公司	经编运动鞋面制造数字化工厂	2017
金发科技股份有限公司	先进工程塑料制造数字化工厂	2017
宁波方太厨具有限公司	高端厨电产品智能制造新模式	2017
山东路德新材料股份有限公司	工程用高性能碳纤维复合材料智能制造新模式应用	2017
安徽合力股份有限公司	工业车辆传动系统和定制化整机智能制造项目	2017
北京机械工业自动化研究所有限公司	智能工厂物流系统互联互通及互操作标准研究和试验验证平台建设	2017
巨石集团有限公司	年产三十六万吨玻璃纤维智能制造新模式应用	2016
珠海格力电器股份有限公司	空调行业全流程协同智能制造新模式	2016
福建百宏聚纤科技实业有限公司	涤纶长丝熔体直纺智能制造数字化车间	2016
潍柴动力股份有限公司	基于装备智能化和工业大数据的高端柴油发动机智能工厂建设	2016
威胜集团有限公司	电力装备能源计量及控制产品智能制造新模式	2016
秦川机床工具集团股份公司	工业机器人减速器数字化车间	2016
兰州兰石集团有限公司	石油装备关键零部件数字化铸造及智能制造新模式	2016
内蒙古蒙牛乳业（集团）股份有限公司	乳制品智能工厂（流程型）新模式应用	2016

解决方案

SOLUTIONS



合成纤维制造全流程智能物流解决方案

Intelligent Logistics System Solution For Fiber Manufacturing Industry

由北自科技自主研发的合成纤维制造全流程智能物流解决方案为用户提供了纺丝车间从卷绕机落丝、装车、分拣、包装、仓储及MES系统的全方位自动化解决方案，产品覆盖全国10余家化纤龙头企业。

The intelligent logistics system of automatic fiber production was developed independently by R.T.D..It provides comprehensive automation solutions to the spinning workshop for doffing, loading, sorting, packaging, storage and MES system. In addition, our systems serve more than 10 leading fiber manufacturing enterprises in China.

类别
Category

业绩情况
Performance

全自动落丝系统
Automatic Doffing System

累计完成产能600万吨/年；300余条生产线
Accumulated production capacity of 6 million tons/year; More than 300 production lines

全自动包装系统
Automatic Packaging System

处理丝饼300万锭/天；100余条生产线
Processing 3 million bobbins/day; More than 100 production lines

自动化立体仓库（纤维制造行业）
Automated Warehouse(Fiber Manufacturing Industry)

近20座；近60万个货位
Nearly 20 ASRS; Nearly 600,000 locations

整厂自动化业绩表

Cases Of Whole Factory Automation

合作单位 Cooperation	时间 Year	单线年产能(吨) Annual production capacity of single line (ton)	说明 Description
新风鸣集团股份有限公司 Xinfengming Group Co., Ltd.	2018	总计5万吨 50,000 tons	自动落丝(8)+自动上纸管+自动输送到外检区(AGV)+丝车暂存库(300) +自动包装(1)+自动成品库(5000) Automatic doffing (8)+automatic paper bobbin+Automatically send to the outside checking area(AGV)+Creel temporary storage(300)+ automatic packaging(1)+Automatic finished products warehouse(5000)
福建百宏聚纤科技实业有限公司(E区) Fujian Billion Polymerization Fiber Tech.Ind.Co., Ltd. (section E)	2018	总计20万吨 200,000 tons	自动落丝(10)+POY丝车暂存库(1000)+DTY丝车暂存库(1800) +自动包装(1FDY+4DTY)+自动成品库(50000) Automatic doffing (10)+POY creel temporary storage(1000)+DTY creel temporary storage(1800)+Automatic packaging(1FDY+4DTY)+Automatic finished products warehouse(50000)
福建百宏聚纤科技实业有限公司(越南) Fujian Billion Polymerization Fiber Tech.Ind.Co., Ltd. (Vietnam)	2019	总计20万吨 200,000 tons	自动落丝(10)+POY丝车暂存库(1000)+DTY丝车暂存库(1800) +自动包装(1FDY+4DTY)+自动成品库(50000) Automatic doffing (10)+POY creel temporary storage(1000)+DTY creel temporary storage(1800)+Automatic packaging(1FDY+4DTY) +Automatic finished products warehouse(50000)
福建百宏聚纤科技实业有限公司(工业丝) Fujian Billion Polymerization Fiber Tech.Ind.Co., Ltd. (Industrial yam)	2019	总计25万吨 250,000 tons	自动落丝(16)+工业丝丝车暂存库(1400)+工业丝在线检测区 +自动包装(3条)+自动成品库(50000) Automatic doffing (16)+Industrial yam creel temporary storage(1400) +Industrial yam on-line check+Automatic packaging(16)+Automatic finished products warehouse(50000)
海宁恒逸新材料有限公司(尖山项目) Haining Hengyi High-Tech Material Co., Ltd. (Jianshan)	2019	总计60万吨 600,000 tons	自动落丝(22)+POY丝箱库暂存库(1000)+在线检测区+自动包装(4条) +自动成品库(50000) Automatic doffing (22)+POY carton temporary storage(1000) +Industrial yam on-line check+Automatic packaging(4) +Automatic finished products warehouse(50000)
义乌华鼎锦纶股份有限公司(五洲项目) Yiwu Huading Nylon Co., Ltd. (Wuzhou)	2019	总计20万吨 200,000 tons	自动落丝(10)+POY丝车库暂存库(1000)+FDY丝车库暂存库(1000) +自动包装(5条)+自动成品库(30000) Automatic doffing (10)+POY creel temporary storage(1000) +FDY creel temporary storage(1000)+Automatic packaging(5) +Automatic finished products warehouse(30000)
江苏恒科新材料有限公司(二期) Jiangsu Hengke High-Tech Material Co., Ltd. (Second phase)	2020	总计80万吨 800,000 tons	自动落丝(38)+POY丝箱库暂存库(1500)+POY自动包装(2条) +DTY自动包装(10条)+自动成品库(100000) Automatic doffing (38)+POY carton temporary storage(1500) +POY automatic packaging(2)+DTY automatic packaging(10) +Automatic finished products warehouse(100000)
江苏恒力化纤股份有限公司(工业丝) Jiangsu Hengli Chemical Fiber Co., Ltd. (Industrial yam)	2020	总计20万吨 200,000 tons	自动落丝(14)+FDY丝车库暂存库(1150)+FDY自动包装(3条) +自动成品库(43000) Automatic doffing (14)+FDY creel temporary storage(1150) +Automatic finished products warehouse(43000)



冷链物流自动化解决方案

Cold-Chain Logistics Automation Solution

北自科技为实现物流仓储系统在低温环境下的自动化，对自动化立体冷库的专用技术进行了深入研究，已经形成和完善了适用于自动化立体冷库应用的设备及控制计算机系统体系，如工艺规划、自动化设备、货架及控制系统等均能够稳定可靠在 -25°C 的环境下运行。

到目前为止，北自科技已经成功实施了正大集团、双汇集团、三全集团、中粮集团和北京恒慧通等数十个自动化立体冷库工程项目，积累了大量在低温环境下货架、自动化设备及控制系统的设计施工经验。

In order to achieve the automation of logistics warehousing system in a low temperature, R.T.D. has deeply researched the special technology for the low-temperature ASRS, and has formed and improved the equipment and control computer system suitable for the application of cold storage. For example, its process planning, automatic equipment, storage rack and control system etc. can stably and reliably operate in the environment with a temperature of -25°C .

So far, R.T.D. has successfully implemented dozens of low-temperature ASRS projects, including the projects of Charoen Pokphand Group, Shineway Group, Sanquan Group, COFCO and Beijing Henghuitong and so on, and has accumulated a lot of experience in design and construction of storage rack, automatic equipment and control system in the low-temperature environment.

成功案例 Cases

项目名称 Project Name	规模 Scale	温度 Temperature
双汇冷易通郑州冷链物流分拣中心 Cold Chain Logistics Distribution Center of Shineway Lengyitong Zhengzhou Co., Ltd.	43080个货位, 22个巷道 43080 locations, 22 aisles	-18℃
天津师帅冷链物流有限公司自动化立体冷库 Low-temperature ASRS of Tianjin Shishuai Cold Chain Logistics Co., Ltd.	43564个货位, 16个巷道 43564 locations, 16 aisles	-18℃
新希望集团上海双手机电有限公司智能化立体冷库 Intelligent Stereoscopic Cold Storage of New Hope Group Shanghai Sunshow Mechanical&Electrical Co., Ltd.	19040个货位, 20个巷道 19040 locations, 20 aisles	-18℃
河南牧原农牧设备有限公司(驻马店、南阳)自动化立体冷库 Low-temperature ASRS of Henan Muyuan Agricultural Equipment Co., Ltd. (Zhumadian, Nanyang)	30240个货位, 10个巷道 30240 locations, 10 aisles	-18℃
深圳市盐田港集团有限公司自动化立体冷库 Low-temperature ASRS of Shenzhen YanTian Port Holdings Co., Ltd.	7184个货位, 2个巷道 7184 locations, 2 aisles	-25℃
双汇集团(南昌、郑州、绵阳)自动化立体冷库 Low-temperature ASRS of Shineway Group (Nanchang, Zhengzhou, Mianyang)	30000个货位, 15个巷道 30000 locations, 15 aisles	-18℃
广州空港物流中心自动化立体库暨物流系统工程 Low-temperature logistics center of Guangzhou airport	70192个货位, 24个巷道 70192 locations, 24 aisles	-25℃
山东阿齐工厂自动化立体库项目 Low-temperature ASRS of Shandong aqi factory	30820个货位, 8个巷道 30820 locations, 8 aisles	-18℃
泰国正大食品有限公司(Padriew、Saraburi)自动化冷库 Low-temperature ASRS of Thailand-Charoen Pokphand Foods Co., Ltd. (Padriew、Saraburi)	14496个货位, 11个巷道 14496 locations, 11 aisles	-25℃
正大食品有限公司(襄阳、榆树、湛江、南通、徐州、 义乌、衡水、成都、兰考)自动化立体冷库 Low-temperature ASRS of Thailand-Charoen Pokphand Foods Co., Ltd. (Xiangyang, Yushu, Zhanjiang, Nantong, Xuzhou, Yiwu, Hengshui, Chengdu, Lankao)	50670个货位, 39个巷道 50670 locations, 39 aisles	-25℃



穿梭式智能仓储解决方案

Shuttle Intelligent Warehousing Solution

穿梭式智能仓储解决方案可以满足高密度、高效率、自动化、低成本的物流存储需求，使用便捷、安全，得到了广泛的应用。系统硬件由穿梭板、高密度货架、堆垛机和输送机等设备构成，通过仓库智能信息软件系统统一管理、调度和优化，实现货物自动出入库。与传统的单元巷道式立体仓库相比，该解决方案可提高存储容量约20%，降低建设成本约10%，适用于食品、冷链、快消品等行业。

Shuttle intelligent warehousing solution can meet the demands of high-density, high-efficiency, automation and low-cost of logistics storage. It is convenient and safe to use, and has been widely applied. The hardware of the system is composed of shuttle, high-density storage rack, stacker, conveyor and so on. Through the unified management, scheduling and optimization of the warehouse intelligent information software system, it can accomplish the automatic warehousing of goods. Compared to the traditional aisle-type stereoscopic warehouse, this solution can enhance storage capacity by about 20% and reduce construction cost by about 10%. It is applicable to industries such as food industry, cold chain industry and fast-consuming industry.

成功案例 Cases

项目名称 Project Name	规模 Scale
呼伦贝尔伊利液态奶自动化仓储系统 Automated Warehouse System for Liquid Milk, Erie diary Co., Ltd. Hulunbuir	7104个货位, 12套子母车 7104 locations, 12 sets Esmartsshuttle
武威伊利自动化仓储系统 Automated Warehouse System, Erie diary Co., Ltd. Wuwei	8000个货位, 16套子母车 8000 locations, 16 sets of Esmartsshuttle
中外运物流华北有限公司自动化仓储系统 Automatic Storage&Retrieval System of Sinotrans Logistics North China Co., Ltd.	1440个货位, 2套子母车 1440 locations, 2 sets of Esmartsshuttle
咸阳伊利自动化仓储系统 Automated warehouse system, Erie diary Co., Ltd. Xianyang	9099个货位, 24套子母车 9099 locations, 24 sets Esmartsshuttle
北京红星股份有限公司自动化立体仓库 Automatic Storage & Retrieval System of Beijing Red Star Co., Ltd.	2316个货位, 10套子母车 2316 locations, 10 sets of Esmartsshuttle
沧州四星玻璃智能密集物流仓储系统 Intelligent dense logistics warehousing system of Cangzhou Four Stars Glass Co., Ltd.	3000个货位, 20套子母车 3000 locations, 20 sets of Esmartsshuttle
唐山梦牌瓷业穿梭式自动化立体仓库 Shuttle-type ASRS of Tangshan Monopy Ceramic Co., Ltd.	10750个货位, 4台堆垛机 10750 locations, 4 stackers





货到人拣选系统解决方案

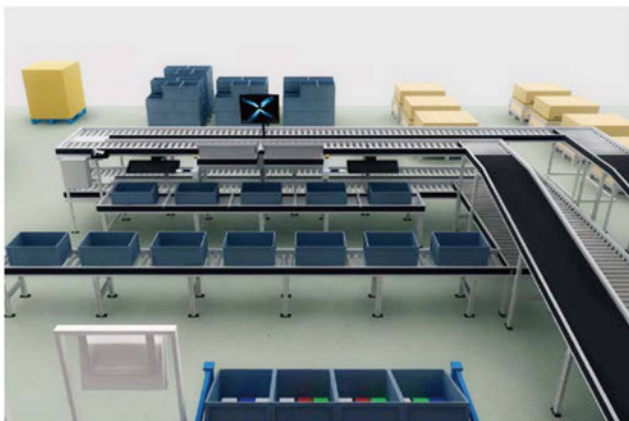
Goods-to-Person (G2P) Picking System Solution

货到人拣选系统解决方案由多层穿梭车、高密度货架、拣选工作站和输送设备等构成，通过信息系统统一管理、调度和优化，实现货到人拣选。多层穿梭车拥有超高的处理能力，是缓存和排序的理想平台，与拣选工作站连接自动存取货物，运行准确高效。拣选工作站使用 2:4 的配置，可同时处理 4 个独立订单，提高工作人员拆零拣选效率，每个工作站每小时可完成 500-1000 次拣选任务。

Goods-to-person picking system solution consists of multi-shuttle, high-density storage rack, picking workstation and conveyor. Through the unified management, scheduling and optimization of the information system, it can accomplish goods-to-person picking. The multi-shuttle has super-high processing capability, and is an ideal platform for caching and sorting. It connects with the picking workstation to automatically deposit and withdraw the cargos accurately and efficiently. The picking workstation uses the allocation of 2:4, can process 4 independent orders at the same time and can improve dismounting and picking efficiency of the workers. Each workstation can complete 500-1000 picking tasks per hour.

成功案例 Cases

项目名称 Project Name	规模 Scale	工作站(个) Workstation
中国铁建重工集团有限公司长沙园区物流中心项目 Changsha Park Logistics Center Project of China Railway Construction Heavy Industry Co., Ltd.	5538个货位(托盘), 3个巷道 23856个货位(料箱), 2个巷道 5538 locations (pallet), 3 aisles 23856 locations (basket), 2 aisles	2
泰国正大食品有限公司沙拉武里自动化物流冷库 Low-temperature ASRS of Saraburi Thailand- Charoen Pokphand Foods Co., Ltd.	13892个货位, 9个巷道 13892 locations, 9 aisles	6



产品介绍

PRODUCT INTRODUCTION





堆垛机系统
Stacker System

堆垛机是自动化立体仓库的主要搬运设备，它在高层货架中运行。堆垛机的性能直接影响到立体仓库的作业效率和可靠性。堆垛机的运行节拍和平稳性，以及控制系统的智能性是衡量设备的重要参数。

The stacker is the main handling equipment of the Automated Storage and Retrieval System (ASRS), which runs inside the high-level rack. The stacker performance directly affects the operation efficiency and reliability of ASRS. The cycle time and stability of stacker, as well as intelligence of the control system are important parameters to measure the equipment.



EMS系统
EMS System

EMS系统由铝合金轨道、车组、道岔、滑导取电装置、升降装置及电控等组成。车组间可实现内积放和线体分段积放，线体布置灵活，可根据客户需要实现空中或地面布线要求，能够快速、高效地实现工件的传输和上、下件，整体结构美观、简洁、环保。

EMS system is composed of aluminum alloy track, vehicle sets, turnout, sliding guide power-picking device, and lifting gear and electronic controls. Between the vehicle sets, inner power and line segmented power can be realized. The arrangement of lines is flexible, and the aerial wiring or ground wiring requirements can be met according to the customer's needs. The transport and lifting of the work piece can be rapidly and efficiently realized. The overall structure is beautiful, simple and environmentally-friendly.



输送机系统
Conveyor System

输送设备完成立体仓库货架外的输送，它内与堆垛机衔接，外与其它搬运车或直接到站台的远途运货车衔接，一般由输送机、移栽机、升降机、提升机构成。

The conveyor equipment completes the transport outside ASRS. It connects with the stacker inside and other carriers or long-distance delivery trucks directly to the platform outside. Generally, it consists of conveyor, transporter, lifter, and elevator.



穿梭车系统
Shuttle System

穿梭车可以在立体仓库周围配合输送设备，沿固定轨道进行高速货物搬运。它速度快、灵活性强、可多车协调工作。

Shuttles can cooperate with the conveyor equipment to accomplish high-speed cargo handling along a fixed rail around ASRS. It is fast, flexible and can work in coordination with multiple shuttles.



机器人系统
Robot System

运用机器人技术可实现物品的码垛、上下料、运输，效率高、操作准确，可在恶劣环境下工作。

The robot technology can be used to accomplish the stacking and feeding materials. It is an efficient and accurate operator, which can work in harsh environments.



自动分拣系统
Automatic Sorting System

自动分拣系统是先进配送中心所必需的设施，高效率的分拣系统通常每小时可分拣商品6000-12000箱。自动分拣机是提高物流配送效率的一项关键因素，目前已经成为大中型物流中心不可缺少的一部分。

The automatic sorting system is a necessary facility for an advanced distribution center. With a high sorting efficiency capability, it usually can sort 6,000 - 12,000 boxes of commodities per hour. It can be said that the automatic sorting machine is a key factor to enhance the logistics distribution efficiency. So far, it has become an indispensable part of the large and medium-sized logistics centers in developed countries.



自动导引小车

Automatic Guided Vehicle (AGV)

自动导引小车 (AGV) 可接受搬运命令, 利用各种自动导引方式选择运行路线和速度, 在一定范围内进行搬运作业, 遇障碍物可自行停车等待或绕行。

Automatic Guided Vehicle (AGV) can receive the order of handling. It can make use of various automatic guide modes to select the operation route and speed, and conduct the handling operations within a certain range. When encountering an obstacle, it can automatically stop to wait or make a detour.

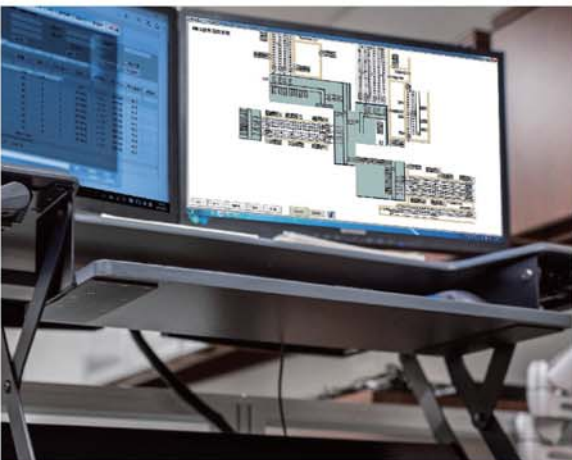


专用物流设备

Special Logistics Equipment

根据物料系统搬运不同物料的特殊需求, 北自科技研制出多种专用物流设备。如化纤用纱锭自动落筒搬运车、气瓶输送和搬运设备、EMS小车等。

According to the special demands of the material system for handling different materials, R.T.D. has researched and developed various special logistics equipment, such as automatic carrier of spindles for chemical fiber, gas cylinder conveying and handling of equipment, and the EMS trolley.



计算机监控管理系统

Computer Monitoring and Management System

计算机监控管理系统的主要功能是对出入立体库的货物进行高动态管理和调度, 及时准确地完成出入库作业, 实现货物信息的同步管理。

The main function of the computer monitoring system is to conduct a highly dynamic management and scheduling of cargo entering or leaving ASRS. It can accurately complete the warehouse operation in time, and accomplish the synchronous management of cargo information.



行业应用

INDUSTRY APPLICATIONS

北自科技投入了大量资金对自动化物流系统的专业技术进行了深入的研究。

北自科技从用户的需求和行业的发展着眼，提供集自动化、信息化、智能化于一体，解决加工、搬运、仓储、配送等一系列环节的综合集成解决方案。

北自科技更加重视系统本身的协调和优化，满足不同行业、不同领域用户的定制需要，并已在制造业、食品、医药、纤维制造等多个领域成功实施，呈现出强劲的发展状态。

R.T.D. has invested sufficient funds in research and development of logistics automation systems.

Based on clients' demands and industrial development, R.T.D. provides systematic solutions with integrations of automation, informatization and intelligentization, aiming to solve issues occurred in processing, handling, warehousing and distribution procedures.

R.T.D. values its system's coordination and optimization, and dedicates to deliver satisfactions to clients in different industries. The company has successfully implemented its systems in industries such as manufacturing, food, pharmaceutical and fabric business, and has shown a powerful status of expansion.

制造业

Manufacturing Industry



随着工业化的推进和产业升级，现代化物流系统已经成为大部分制造业发展规划中的重要战略目标和主要任务，提高物流自动化的水平必然会给我国民经济带来巨大的效益。北自科技与制造行业的客户紧密配合，已为国内多家客户提供了自动化物流系统，并广受好评。



中国一重



中国西电集团公司



中国铁建



三一集团



中科可控



中国通号



双星轮胎



一汽-大众



正泰



山东省药用玻璃股份有限公司



中橡集团



SAURER



许继集团



恒安集团

Along with the advancement of industrialization, the modern logistics system has become an important strategic goal and instrument in the development of the manufacturing industry. Enhancing the level of logistics automation is bound to bring great benefits to the national economy. R.T.D. closely cooperates with the customer in the manufacturing industry. It has provided automatic logistics systems for several domestic customers, which are widely praised.

医药行业

Pharmaceutical Industry



近些年来，国内实力较为雄厚的医药企业都相继建设了现代化的物流中心，引入了现代化的物流技术和设备。北自科技凭借优秀的设计经验和制造实力，先后为众多医药企业设计建造了自动化物流中心，提升了企业信息化管理水平，降低了企业的综合成本，使我国的医药企业在国际市场中更有竞争力，也为北自科技的物流领域的扩展提供了更为广阔的空间。



华安



石药集团



红日药业



江中集团



欧司姆



韩东



韩东



扬子江药业集团



BICON



九九制药



九州通医药集团



远大医药



上海医药



YEBIO

In recent years, the relatively powerful pharmaceutical enterprise has successively established modern logistics centers and introduced modern logistics technologies and equipment. R.T.D., by virtue of its excellent design experience and manufacturing strength, has successively designed and built automatic logistics centers for many pharmaceutical enterprises, which in turn has enhanced the information-based management and reduced the comprehensive cost of these enterprises. In addition, it makes Chinese pharmaceutical enterprises more competitive in the international marketplace, and provides a broader space for the development of R.T.D. in the logistics field.

食品行业

Food Industry



食品业是我国第一大支柱产业，随着食品业的持续发展，对自动化物流系统的需求将会越来越大。北自科技针对食品行业提供多种系统整体解决方案，设计并制造了适合食品行业卫生干净、无污染等特点的系统方案。



The food industry is the largest industries in China. Along with the constant development of the food industry, the demand for an automatic logistics system for this industry will be increasing. R.T.D. provides a variety of overall system solutions for the food industry, and designs and implements various clean and pollution-free system projects suitable for this industry.

纤维制造行业

Fiber Manufacturing Industry



纤维制造生产线自动化物流输送系统是一套针对纤维生产工艺和各个生产环节的特殊性提供的完整的自动化物流输送解决方案。随着生产线自动化物流输送系统的使用，完全取代了传统的人工作业模式，突破了制约产能提升的瓶颈，使制造企业在大幅提高产量的同时又节省了大量劳动力成本，也对产品品质的提升起到了很大的作用。



The automatic logistics production line conveying system for fiber manufacturing is a completely automatic logistics conveying solution aiming at the particularity of the production process and each production link. With the use of the automatic logistics production line conveying system, the traditional manual operation mode has been completely replaced and the bottleneck of productivity restrictions has been overcome. The manufacturing enterprises save a lot of labor costs while greatly enhancing the output and improving the quality of the product.

家居行业

Household Industry



家居行业物流模式变革迫在眉睫，家居企业应在供应链全流程内提升装备的自动化、信息化、智能化水平。北自科技结合产线工艺，深入优化物流模式，研发新型定制化专机设备，提高供应链高科技含量，补充关键工艺环节的物流短板设备，助力家居企业高质量发展蓬勃发展。

FOTILE 方太

OPPEIN 欧派

WISION 维尚家具

万家乐

Sleemon 喜临门

GREE 格力

梦牌卫浴 MONOPY

红苹果

WONLY 王子爱尚

美克·美家 Markor Furnishings

The transformation of the logistics model in household industry is imminent, and home furnishing enterprises should improve the level of automation, information, and intelligence of equipment in the entire process of the supply chain. R.T.D. is committed to combining production line technology, in-depth optimization of logistics modes, developing new customized special equipment, improving the high-tech content of the supply chain, upgrading the logistics short-board equipment in key process nodes. Through the above efforts, R.T.D. aims to help a high-quality and vigorous development of home furnishing industry in the upcoming future.

石油化工行业

Petrochemical Industry



石油化工行业作为国民经济的支柱企业，传统的仓储模式已无法满足装置大型化的需求，北自科技自动化仓储物流系统满足市场需求，已在辽河油田、长庆油田、江苏油田、青海油田、塔里木油田等物流项目上成功实施。

中国石油

中国石化

COPTON 康普顿润滑油

中化 SINOCHEN

Petrochemical industry is a corner stone of the national economy. The traditional warehouse model cannot meet the demand for larger-scale units. R.T.D.'s automatic warehousing system can meet the market demand, and it has been successfully implemented in the logistics projects of Liaohe Oilfield, Changqing Oilfield, Jiangsu Oilfield, Qinghai Oilfield and Tarim Oilfield.

金融行业

Financial Industry



随着金融行业的发展，北自科技根据金融行业的特殊性，研发了一套技术先进、功能完善、效率高效、稳定实用的自动化物流解决方案，成功应用于中国银行、中信银行、北京印钞有限公司、上海印钞有限公司等多个金融机构。



With the development of the financial industry, based on the particulars of the financial industry, R.T.D. has researched and developed an efficient, stable and practical automatic logistics solution with advanced technology and perfect functions. It has been successfully applied in several financial institutions, including Bank of China, China Citic Bank, Beijing Banknote Printing Co., Ltd. and Shanghai Banknote Printing Co., Ltd.

其他行业

Other Industries

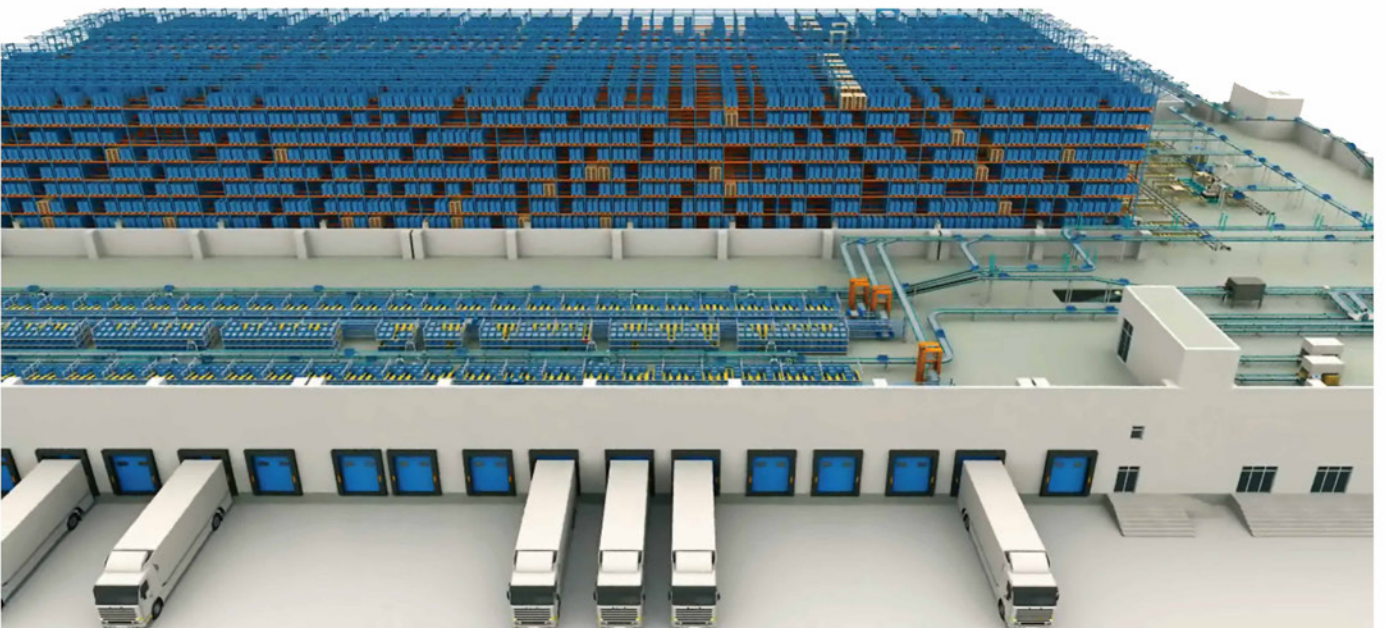


北自科技针对航空航天、电力、烟草、交通、教育、慈善、市政等行业的特点及需求，为客户量身定制了各种自动化物流系统解决方案。提升了客户自身的管理水平、提高了生产及物流效率、保证了产品的质量、降低了物流成本。



Based on the characteristics and demands of such industries as aerospace, power, tobacco, transportation, education, charity and municipal industries, R.T.D. customizes various automatic logistics system solutions for the customer. It enhances the management level of the customer as well as the production and logistics efficiency, and guarantees the product quality while reducing the logistics cost.

DELIVERING
FOR
GOOD





2021年版

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