



Guangdong Wijay Material Automation System Co., Ltd

Battery Industry

Wijay Public Account



Wijay wechat video number



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Design for your needs!

Guangdong Wijay Material Automation System Co., Ltd.

Welcome to Wijay Material Automation System Co., Ltd., a leading high-tech enterprise specializing in material automation and central feeding systems. With over 12 years of experience, we have a proven track record in planning and constructing production lines for industries such as food, plastics, chemicals, and green energy.

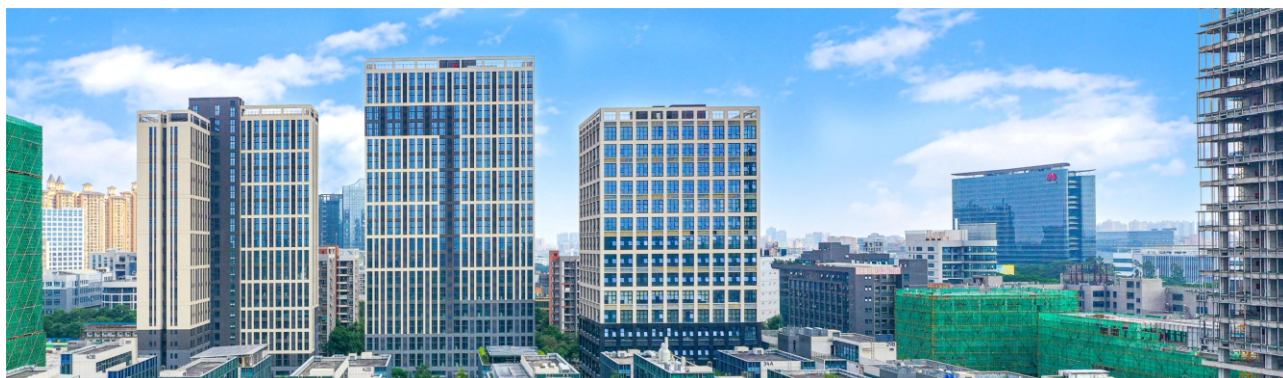
Our headquarters, located in the International Financial Innovation Park in Songshan Lake, Dongguan City, Guangdong Province, house a state-of-the-art 2,000m² technology R&D center and a production base spanning over 40,000 square meters.

Adhering to the design philosophy of “Minimalist Design, Extreme Reliability,” Wijay provides comprehensive services—from production line planning and whole-plant automation system design to equipment R&D, core component manufacturing, and full production line installation and commissioning.

The company has independently developed more than 100 patented inventions and software copyrights, and holds certifications including ISO 9001, ISO 14001, and Intellectual Property Management System. In collaboration with Zhejiang University of Technology, Wijay continues to drive innovation in the field.

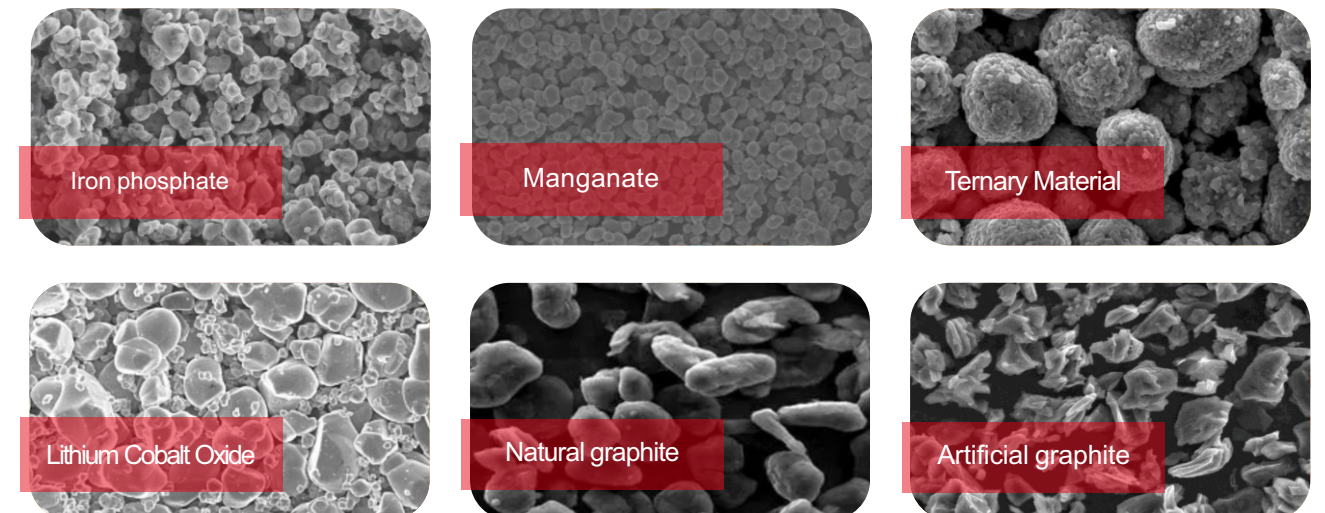
According to the “2022–2028 Global and China Automatic Central Feeding System Market Report” by QYR Research, Wijay ranks among the top global manufacturers of central feeding systems. In 2022, the Guangdong Electronic Information Industry Association reported that Wijay holds a 15.2% market share in China’s material automation systems sector, reflecting the company’s high visibility and influence both globally and domestically.

Choose Wijay for cutting-edge material automation and central feeding systems designed to drive success in your industry.



Common items

Wijay's professional team will tailor solutions according to customer needs to meet the special requirements of different industries.



CORE BUSINESS

The business of Wijay is mainly involved in the automation process of powder particles, granules, and fluids. Powder and granule processing systems typically include equipment for unpacking, feeding, warehousing, unloading, grinding, screening, drying, metal detection, transportation, and metering. Fluid material systems typically include equipment for tank entry, storage, discharge, filtration, mixing, homogenization, metal detection, temperature regulation, transportation, and metering.

Most of the clients served by Wijay are globally renowned top enterprises. The solutions provided by Wijay are of excellent quality and highly reliable, ensuring both cost and quality advantages of your products.

As a pioneer in the Chinese automation industry, Wijay has developed into a privately owned enterprise that integrates research and development, design, manufacturing (core components), trade, and engineering services. Wijay utilizes advanced technology to help clients across the country achieve innovative projects and makes a commitment to “appropriate design” and ensuring a “stable system” for every WIJAY solution.

OUR HISTORY

2012



Wijay has obtained the certificate of Advanced Technology Service Enterprise and starts to cooperate with famous companies such as Nestlé China.

2013



Wijay has been awarded the title of Independent Innovation Advanced Enterprise and has started collaborating with well-known dairy companies such as Yili, occupying a leading position in the food material automation system industry.

2014



Wijay established its own research and development center. And cooperates with BinQi Foods to build a high standard demonstration factory.

2015



Wijay has set up WIYI, which is committed to the research and development of intelligent fluid conveying, recycling, cleaning, and other equipment systems. WIYI has formed strategic collaboration with Wijay and Wijay Hybrid. These three companies, can not only independently undertake engineering projects in their respective fields, but also collaborate to provide complete engineering solutions.

2016



Wijay has set up a mixing technology company, which is committed to the research and development of efficient and stable mixing, homogenization and kneading technologies, forming strategic coordination with Wijay's material automation, and providing a fully automated information mixing solution that fully integrates the material automation system and the mixing equipment system.

2017



Wijay opened its new headquarters in the Songshan Lake hi-tech district of Dongguan and began to develop and manufacture patented models, standard products, and systems.

2018



Wijay set up a Hong Kong company to expand overseas business and has successfully cooperated with the Futong Group to build the Industry 4.0 material automation system for the world's largest optical fiber and cable production base. It has achieved a leading position in the petrochemical industry, the lithium battery industry, and the new material industry.

2019

2020



Wijay purchased a 2000m² office building to expand its headquarters and has established a research and development center that includes a hybrid-technology, engineering safety and explosion testing, crush-testing, transportation-technology testing, fluid-technology, electrical-engineering, factory-software and information-technology research departments, producing more than 50 patents and inventions.

2021



Wijay becomes active in the international market. The Wijay Group Company, located in Wanchai, Hong Kong, is responsible for the development of Wijay's international business and group affairs management. Wijay's products are popular domestically and abroad.

2022



As a gazelle enterprise. Wijay has continued to innovate, starting a cooperation with Zhejiang University of Technology in production, education, and research, and successfully cooperating with the Country Garden Group and other global Top 500 companies. The market share in China in the material automation system industry has reached to 15.2%.

2023



Wijay is establishing long-term cooperative relationships with well-known listed companies in the green energy industry, such as BTR, Dynanonic, SUNSTONE, BRUNP, Shanshan, etc.

2024



Wijay has conducted a comprehensive expansion and upgrade of production facilities, expanding its factory's area size, enriching the variety of production equipment, achieving a breakthrough in production scale, comprehensively driving the advancement and transformation of the company's productivity, leading to a significant surge in sales volume.

2025



Wijay – 13 years specializing in R&D and manufacturing of material automation systems, with deep industry expertise. In early 2025, we expanded our Dalang production base, leveraging independent R&D to deliver more efficient and reliable automation equipment, helping customers enhance productivity and quality.

Automated Production Line Material Solutions for Lithium Battery Positive Electrode Materials

Wijay conducts in-depth analysis of positive electrode materials used in lithium batteries, including lithium iron phosphate, lithium cobalt oxide, lithium manganese oxide, and ternary materials. Based on this analysis, we offer customers comprehensive solutions for automated production lines.

Our company is equipped with professional testing equipment and ensures quality assurance, guaranteeing the delivery of reliable and qualified products that provide customers with peace of mind.

Process Flow Analysis | Material Analysis

Iron Phosphate

Advantages

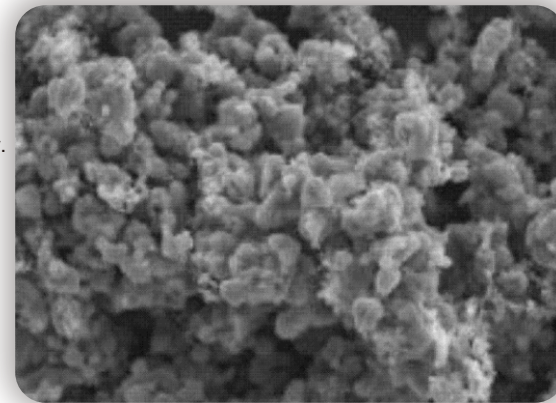
Good safety, Low cost, Non-toxic and pollution-free, Stable discharge platform.

Disadvantages

Low voltage, Low energy density, Low conductivity, Low compaction density.

Characteristics

- Theoretical specific capacity: 170mAh/g, Actual specific capacity (0.2C, 25°C) can exceed 140mAh/g;
- Does not contain any harmful heavy metal elements;
- Elastic density: 0.7 g/cm^3 , Compaction density: 1.2 g/cm^3 , Median diameter: 2-6μm
- Specific surface area: $<30 \text{ m}^2/\text{g}$, Polar compaction density: $2.1\text{-}2.4 \text{ g/cm}^3$



Lithium Cobalt Oxide

Advantages

High working voltage, Good cycling performance, High specific energy, Suitable for high current discharge.

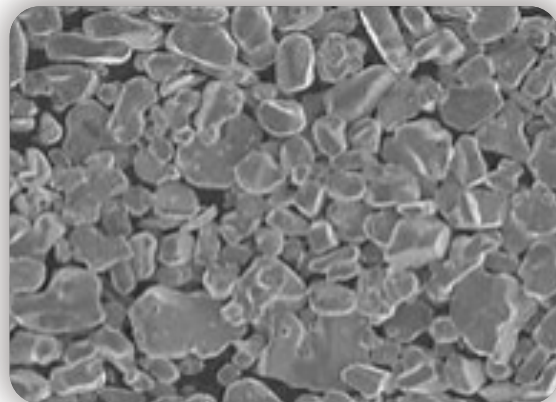
Disadvantages

Actual capacity lower than theoretical capacity, Poor overcharging resistance, Low material costs.

Preparation process

The preparation process involves the liquid phase synthesis method, utilizing a

solvent of polyvinyl alcohol (PVA) or polyethylene glycol (PEG) aqueous solution. The mixed solution is heated and concentrated to form a gel, which is then subjected to heat-induced decomposition. Subsequently, the decomposed gel is calcined at high temperatures. The resulting calcined powder is then milled and sieved to obtain potassium drilling acid.



Ternary Material

Advantages

Low cost, Good cycling and safety, High capacity

Disadvantages

The material is highly alkaline, and the slurry tends to form jelly when it absorbs water.

Preparation process

Sintering process: Rolling kilns are commonly used in production for the synthesis reaction of ternary materials, which must be carried out in an oxidizing atmosphere.

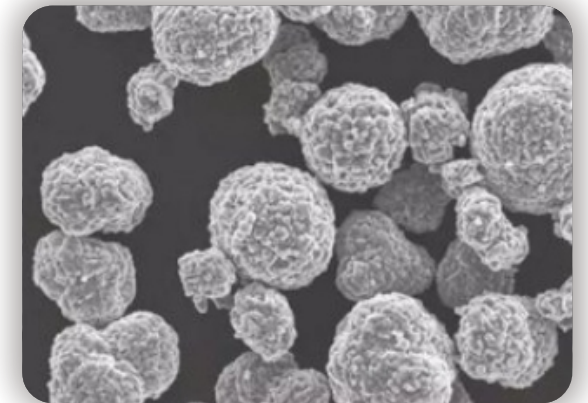
Batch process: Equipment used in the batch process includes a double spiral-shaped mixer and a horizontal spiral belt mixer.

Iron process exceptor: High magnetic field strength electromagnetic iron removers are currently used for iron removal.

Packaging process: Initially, ordinary vacuum packaging machines were used, but large-scale enterprises now utilize automated powder packaging machines.

Crushing and grading process: Conventional crushing methods, such as rotary wheel grinding, can achieve particle sizes below 1mm. Further ultrafine crushing can be performed subsequently.

Ingredients measurement and mixing process: Ultrafine grinding is typically accomplished using air flow grinding and mechanical grinding machines. Automatic metering and batching equipment are employed for ingredient measurement and batching. Dry mixing equipment is utilized for the mixing process, with two common approaches: efficient mixers and thousand method ball mills.



Manganate

Advantages

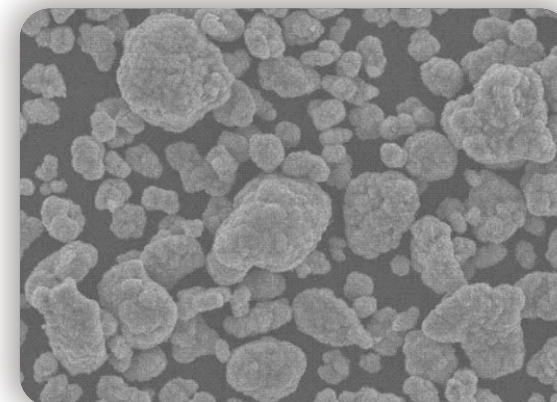
Low price, High potential, Environmentally friendly, High safety performance

Disadvantages

Poor cycling performance, Limited electrochemical stability

Preparation process

The production of manganate primarily relies on electrolytic manganese dioxide (EMD) and carbonation as raw materials. These are combined with corresponding additives and undergo mixing, firing, and post-treatment steps. The production process takes into consideration the characteristics of the raw materials and ensures a non-toxic and environmentally friendly production. It does not generate wastewater or waste gas. Additionally, the powder produced during production can be recycled.



Material Solution for Automation Production Line of Lithium Battery Negative Electrode Material

Wijay offers a comprehensive material solution for automating the production line of lithium battery negative electrode materials. We analyze the characteristics of negative electrode materials, including natural graphite and artificial graphite, and provide customers with a complete set of automatic production solutions.

Our solution covers graphite crushing, proportioning, mixing, granulation, cooling, sieving, iron removal, and packaging, addressing all customer concerns.

Process Flow Analysis | Material Analysis

Natural Graphite

High energy density, low expansion, long cycle life

- Graphite powder is soft and black-gray, with a greasy feeling that can contaminate paper.
- Hardness: 1-2; Specific gravity: 1.9-2.3
- It can be used as refractory materials, conductive materials, and wear-resistant lubricating materials;
- Particle Size: 12 μm; Rest angle: 35; Stacking density: 0.5
- Melting point above 3000°C, making it highly heat-resistant and suitable for refractory, conductive, wear-resistant, and lubricating applications.
- Chemically stable at room temperature, does not dissolve in water, dilute acids, dilute solvents, or organic solvents.



Artificial Graphite

Light material and poor fluidity

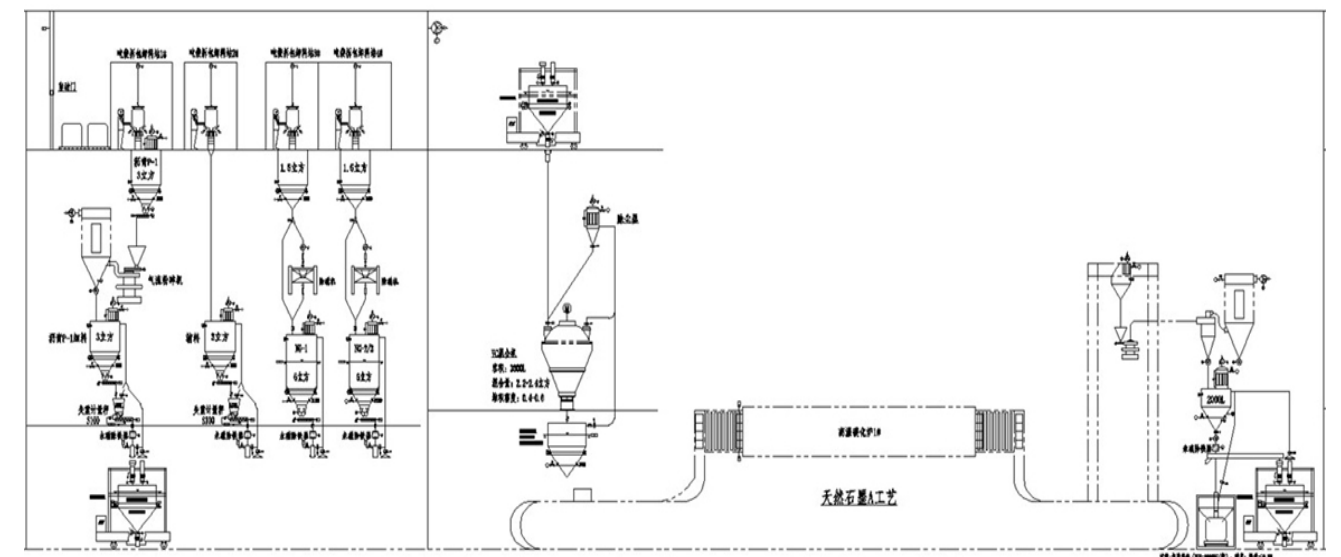
- Coke:
 - Black solid coke produced by cracking and coking the vacuum residue of petroleum in a coking unit at 500-550°C.
 - Particle size: 11.2 μm; Rest angle: 50; Stacking density: 0.36
- Asphalt:
 - Complex black-brown mixture of hydrocarbons with different molecular weights and non-metallic derivatives.
 - Particle size: 5-10 μm; Rest angle: 46; Stacking density: 0.25

A Fully Automatic Production Line for Unloading Conveying, Storing, and Batching Lithium Graphite Materials

Key Features of our Automatic Production Line

- Wijay intermediate phase conveying, with low-speed material transfer to reduce wear on the pipeline walls, features small air volume, compact dust removal equipment, and low energy consumption.
- A unique design enables automatic sequential unblocking and pipeline cleaning during emergency stops, utilizing specially coated valves and fittings.
- A non-standard vibrating bin bottom design effectively resolves issues such as low material density and bridging.
- Specially designed screw and weighing systems, along with advanced metering algorithms, enable high-precision automatic batching.
- Modular design reduces on-site work, shortens installation time, minimizes safety hazards, and limits disruption to existing production operations, offering strong replicability, small footprint, and compact layout.
- The workshop production environment is optimized with a graded dust collection system that effectively reduces dust levels.
- Risks of metal ion contamination are completely eliminated.

Demonstration of negative electrode material process flow- natural graphite process



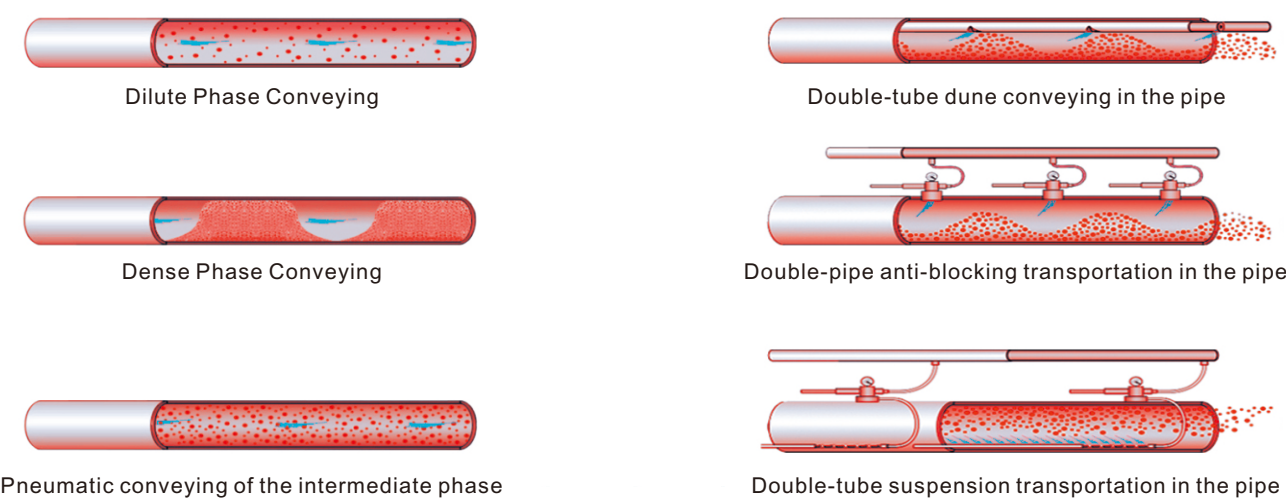
Lithium battery industry supply system

The feeding system can make the management of numerous materials easy and efficient



- Cost savings in labor and raw material expenses
- Maintenance of a clean and organized factory environment
- Ensured stability in material quality
- Traceability of raw material data
- Informatization of material management
- Seamless integration with ERP systems
- Establishment of a manufacturing execution system
- Implementation of Industry 4.0 principles

Common forms of pneumatic conveying



Characteristics and Recommendations of Different Conveying Systems

	Dilute Phase Convey	Dense Phase Convey	WIJAY Intermediate Phase Conveying	WIJAY Hydraulic Conveying
wind speed	v=25-40m/s	v=2-10m/s	v=15-25m/s	v=15-25m/s
phase density	1-10:1	15-60:1	5-25:1	1-2:1
Delivery pressure	0.1-1.0Barg	p=0.5-3.5Barg	p=0.5-2.5Barg	p=1-5Barg
The state of the material in the pipeline	suspended state	embolic state	suspended state but with high solid to gas ratio	suspended state

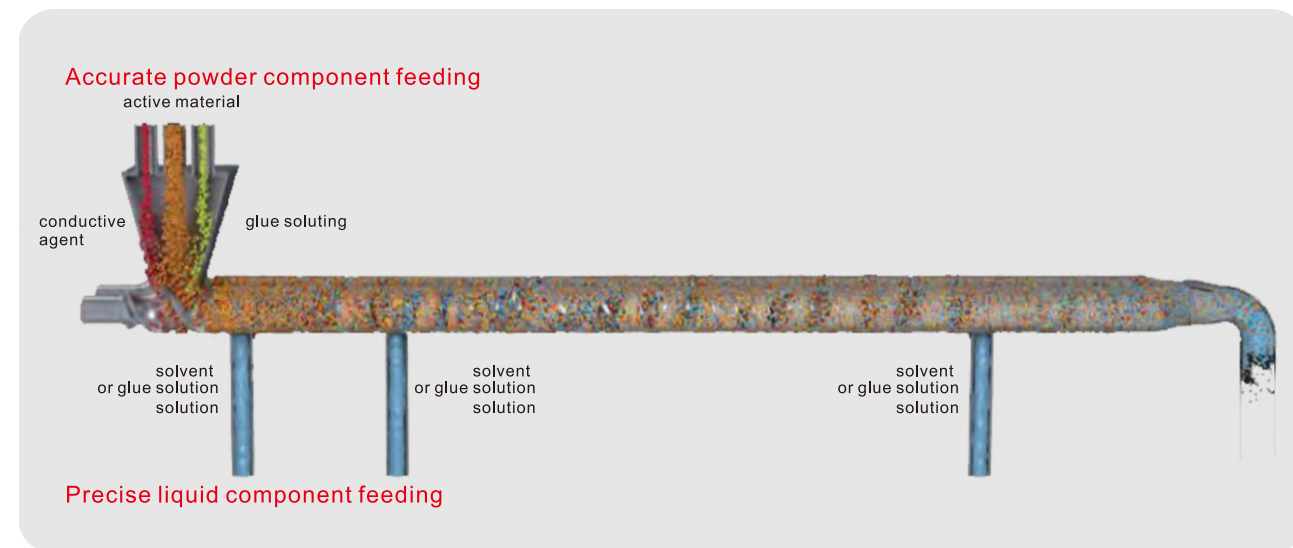
Recommended Methods for Conveying Technology

	Dilute Phase Convey	Dense Phase Convey	intermediate phase conveying	hydraulic conveying
Conveying speed<20T/H Conveying distance<150M	★★★★	★★★	★★★★★	★
Conveying speed<20T/H Conveying distance<150M	★★★★	★	★★★★★	★★★
Conveying speed<20T/H Conveying distance<150M	★★★★	★	★★★★★	★★★
Conveying speed<20T/H Conveying distance<150M	★★★★★		★★★	★★★★★
General description	Low equipment investment cost, slightly higher operating costs, and lower technical difficulty; suitable for non-crushing materials.	High and low equipment investment costs, slightly higher operating costs, and slightly advanced technology; suitable for fragile and brittle materials. and fragile materials	Low equipment investment cost, low operating cost, high technical difficulty, and wide applicability.	Slightly high equipment investment cost, low operating costs, and high technical difficulty; especially suitable for materials that require cooling and cleaning.

Large Scale Production of Electrodeslurry

The preparation of electrode slurry is a crucial process in battery production. Our fully continuous mixing production process for lithium-ion electrode slurry is designed to meet the demands of large-scale battery manufacturing, resulting in significant reductions in investment and operating costs.

Fully automatic continuous mixing technology



Continuous Mixing Technology

continuous mixing technology utilizes a twin screw extruder, which combines various essential operations, such as continuous raw material feeding, pre-mixing, kneading, fine dispersion, and degassing, into a single piece of equipment.

In traditional batch mixing systems, this process typically involves two steps. First, pre-weighed liquid and solid components are added, followed by the introduction of solid components into the liquid. Achieving the desired uniformity at both macro and micro levels often requires several hours of processing time. In contrast, the continuous mixing process involves continuous feeding of controllable liquid and solid components, enabling the micro-distribution of solid particles within the liquid phase.

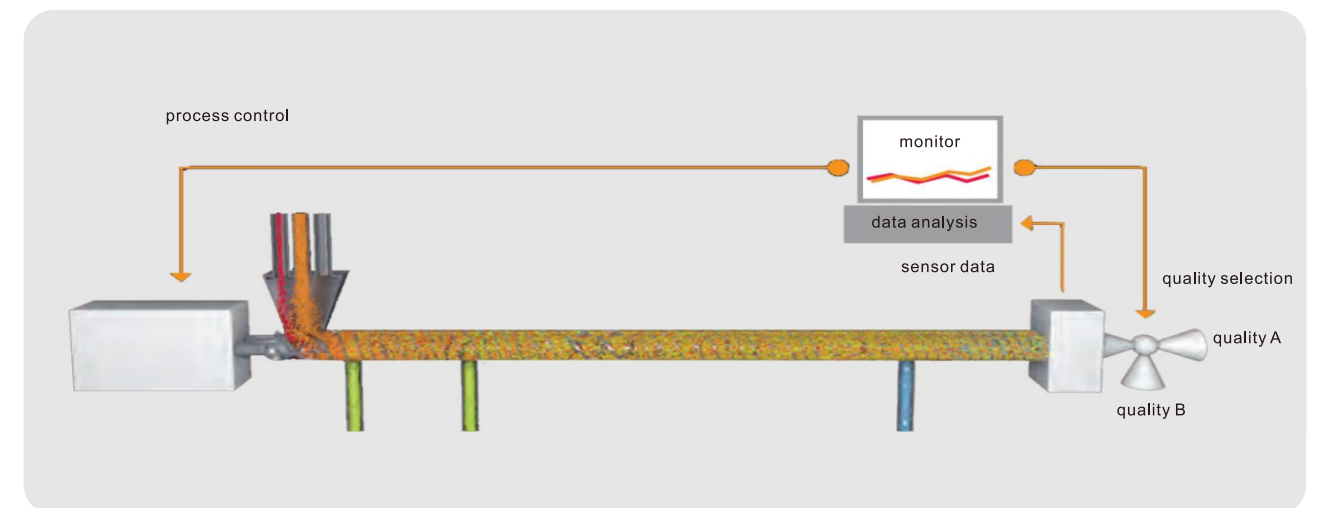
As a significant portion of the mixing process revolves around continuous raw material feeding, the residence time in a continuous mixer generally does not exceed one minute. This efficient method allows for a faster and more streamlined production process without compromising the quality of the mixture.

Lower investment costs

The high productivity (up to 2500 liters/hour) of the continuous mixing process allows it to replace multiple batch mixers, resulting in a fully continuous production line. As a result, it significantly reduces the investment required for large-scale production devices.

Lower operating costs

Compared to batch mixers, the continuous mixing process achieves the same production capacity and product performance with only one-third of the unit energy consumption. It also occupies less space, reducing the required area for the drying workshop in the continuous mixing system. Consequently, the energy consumption needed to maintain the drying chamber environment is significantly lower than that of traditional batch mixing systems. Additionally, the continuous mixing system's high degree of automation can reduce labor requirements for factory operations by 50%.



Online quality control system

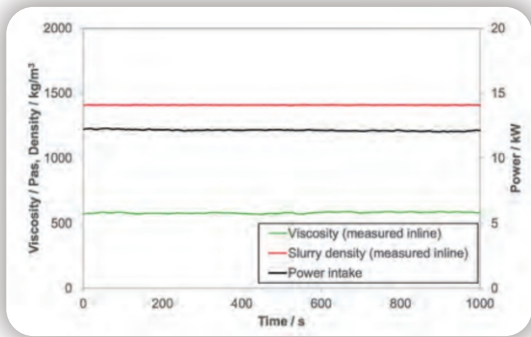
The Wijay online quality control system takes process control to the next level: achieving online monitoring and control of electrode slurry parameters. All the important process parameters such as viscosity, density, raw material flow rate, temperature, pressure, and energy consumption are continuously monitored. Overall, this helps to improve formula accuracy, enhance process control, and achieve better traceability capabilities.

Large Scale Production of Electrodeslurry

In the production process of lithium batteries, the mixing and feeding system equipment plays a crucial role. To enhance the efficiency and quality of lithium battery production, it is essential to understand the basic theory and operational aspects of the mixing and feeding system equipment., By fully leveraging the functional advantages of this equipment, we can comprehensively improve the production efficiency of lithium batteries.

The intelligent production system for lithium battery mixer homogenization comprises several components: a powder metering and feeding system, a glue solvent metering and conveying system, a dual planet vacuum stirring system, a high-speed dispersion processing system, a slurry iron removal and filtration conveying system, a slurry turnover and storage system, and a pipeline ball cleaning system. This system enables intelligent, dust-free, and integrated production of lithium battery slurry, making it an ideal choice for large lithium battery manufacturers.

Technology achieves excellent slurry properties

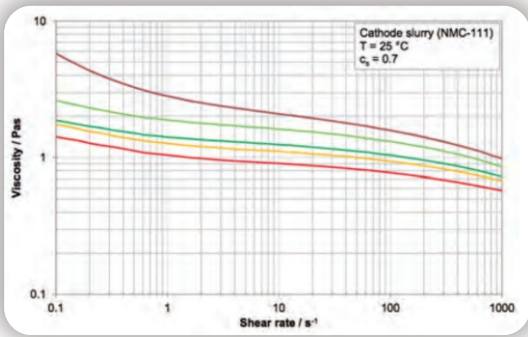


Technology for Excellent Slurry Properties

Achieving outstanding process stability
The precise metering of powder and liquid ensures excellent process stability and consistent slurry characteristics, eliminating variations between different product batches.

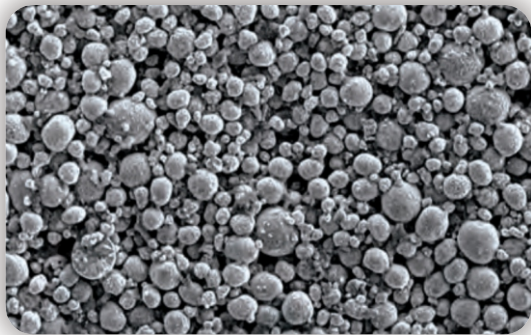
Optimized Rheological Properties of Battery Slurry

Our continuous slurry mixing technology offers multiple options for adjusting the rheological properties of battery slurry. These adjustments can be made by modifying operating parameters without altering the slurry formula.



Controlled Dispersion of Active Materials and Conductive Agents

In our continuous mixing system, the battery slurry undergoes uniform dispersion of active materials and conductive agents. The carbon black aggregates are evenly distributed and remain undamaged, allowing for optimization of process conditions according to customer formulas.



Fully continuous mixing system

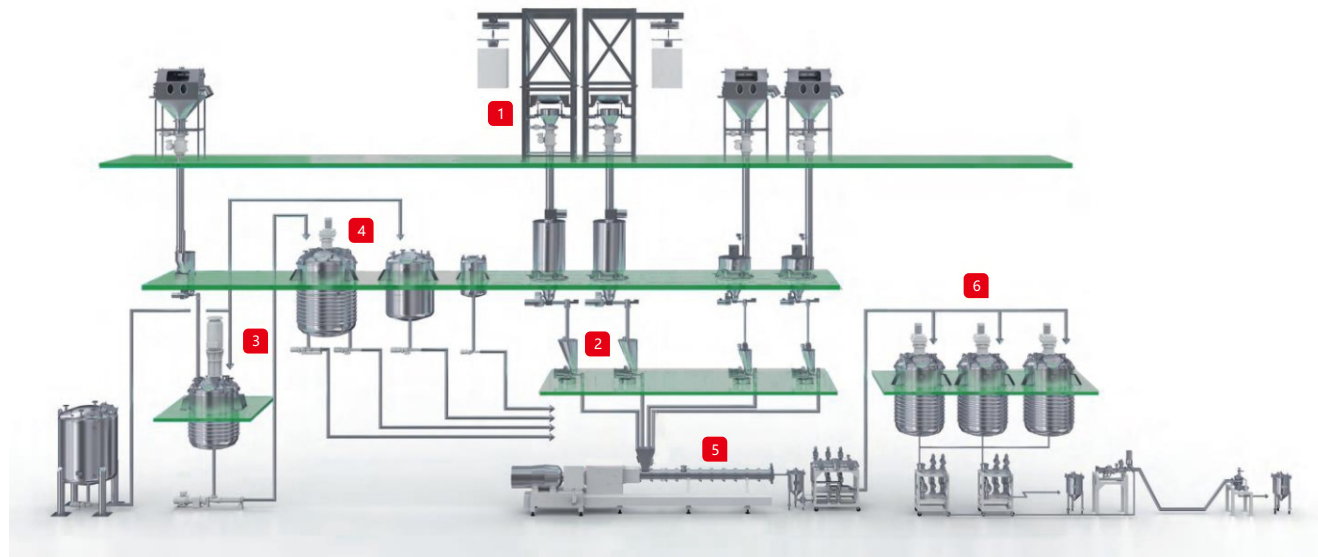


Tank degassing



Production process flow

From feeding to finished product



1

Powder feeding (Can be controlled at various cleanliness levels)

2

High precision weightless powder feeding

3

Glue production (Wet method)

4

High precision liquid feeding

5

Continuous mixing of all ingredients

6

Storage and Degassing

Support various stages of the project



Provide support from start to finish

Our global team can still provide Comprehensive support, including :

- Process development
- Engineering design
- Manufacturing
- Process automation
- Installation
- Debugging
- Training
- Customer service

Engineering Design

The Wijay system boasts a highly efficient and durable design, offering easy operation and ensuring maximum raw material output. It represents a sensible investment with a quick return on investment. Whether it's energy-efficient equipment or comprehensive production facilities, we prioritize sustainability throughout the entire process.

- Maximize availability and reliability
- Maximizing sustainability, energy efficiency, and cost
- effectiveness
- Provide a complete solution
- Equipment and services come from a single source

BTR New Energy - 10,000T Negative Electrode Production Line

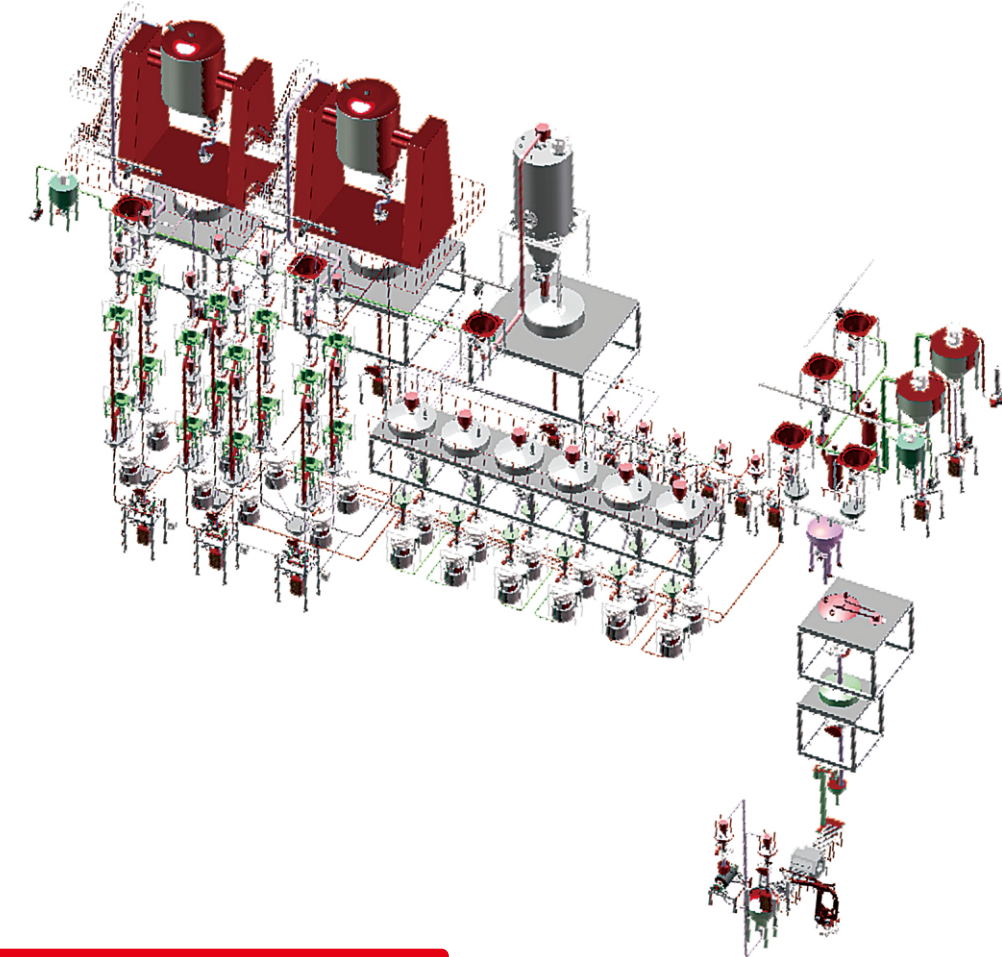
Project Overview

Our client is a national high-tech enterprise specializing in new energy materials development. Their key business segments encompass lithium-ion battery negative electrode materials, lithium-ion battery positive electrode materials, and carbon nano new materials. They are also a national standard-setting entity for graphite negative electrode materials, lithium titanate negative electrode materials, and lithium iron phosphate positive electrode materials. Since 2011, they have consistently held the leading global market share in lithium-ion battery negative electrode materials.

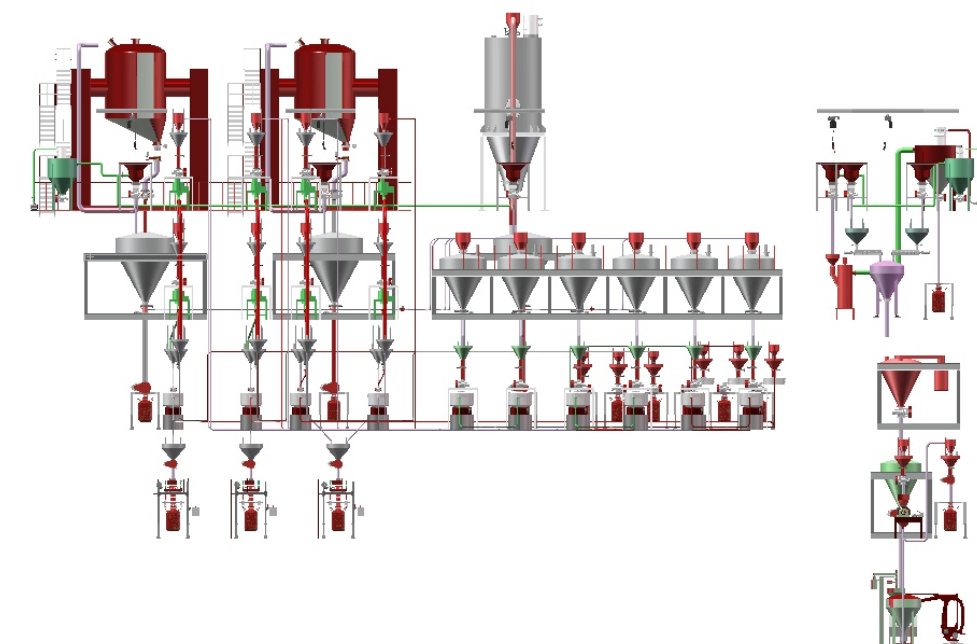
This project involves a production line with an annual output of 10,000 tons of negative electrode materials. Wijay Company is responsible for providing control systems and supporting equipment for the production line connection. This includes the design, production, and installation of the production line, as well as the supply of circulating cooling water for the entire production process.



General Assembly Drawing 1 of Lithium Battery Treatment System



General Assembly Drawing 2 of Lithium Battery Treatment System



A high-end anode material project with an annual output of 200,000 tons of lithium batteries in Gansu

The low-temperature pre-carbonization pneumatic conveying system innovatively designed by Wijay adopts positive pressure dilute phase and negative pressure vacuum feeding and conveying processes according to the distance between the raw material point and the use point.

Realize the positive pressure dilute phase transportation from the 6 transition silos in the low-temperature pre-carbonization workshop to the 4 raw silos in the graphitization workshop 180 meters away, with a conveying capacity of 4 tons per hour for each line. As well as realize the negative electrode powder after coating and granulation and the negative pressure feeding to the pre-carbonization kiln after unloading of the ton bag unpacking machine, the process flow is simplified.

The project central control information system can help customers analyze and understand the real-time storage of materials, material consumption data and energy consumption, and customer managers can understand the system operation and data through computers or mobile devices at any time.

Through Wijay's patented technology and innovatively designed technical solutions, the project has saved a lot of investment costs and operating expenses for customers, and greatly increased production.



An anode material integration base project in Sichuan

The customer is an annual output of 200,000 tons of lithium battery anode material integration base project, settled in Sichuan Pengshan Economic Development Zone, with a total investment of 10 billion yuan, the project is a Shanghai customer lithium battery investment base project in the southwest region, after the completion of the project, it is of great strategic significance to improve the company's leading position in the anode industry, is expected to achieve an average annual tax of 500 million yuan, create more than 2,500 jobs, and will become the industry's single production capacity, process technology are leading lithium battery anode factory. The project is an integrated base project with an annual output of 200,000 tons of lithium battery anode materials. Our company is responsible for the transportation of the coke, calcined coke crushing and post-treatment system and the green coke and calcined coke fine powder treatment system of the project. The coke crushing post-processing system consists of 9 production lines, and the production lines are: mobile silo - negative pressure conveying - transit silo - metering silo. The post-coke crushing post-treatment system consists of 3 production lines, and the content of the production line is the same as that of the post-coke crushing treatment line. There are a total of 12 production lines of green coke and calcined coke crushing and post-processing systems, each with a conveying capacity of 8 tons/hour, of which the farthest negative pressure conveyor line has a conveying distance of 380 meters, which is the first negative pressure conveying case of more than 300 meters in the field of anode materials. The fine powder processing system for green coke and calcined coke is composed of a fine powder collection and packaging unit of the crushing/grading unit, and dozens of fine powder collection silos are conveyed to the packaging unit under negative pressure. There are 4 production lines in the green coke and calcined coke fine powder processing system, each with a conveying capacity of 5 tons/hour, of which the longest conveying distance is more than 70 meters.



An anode material project with an annual output of 300,000 tons in Yunnan

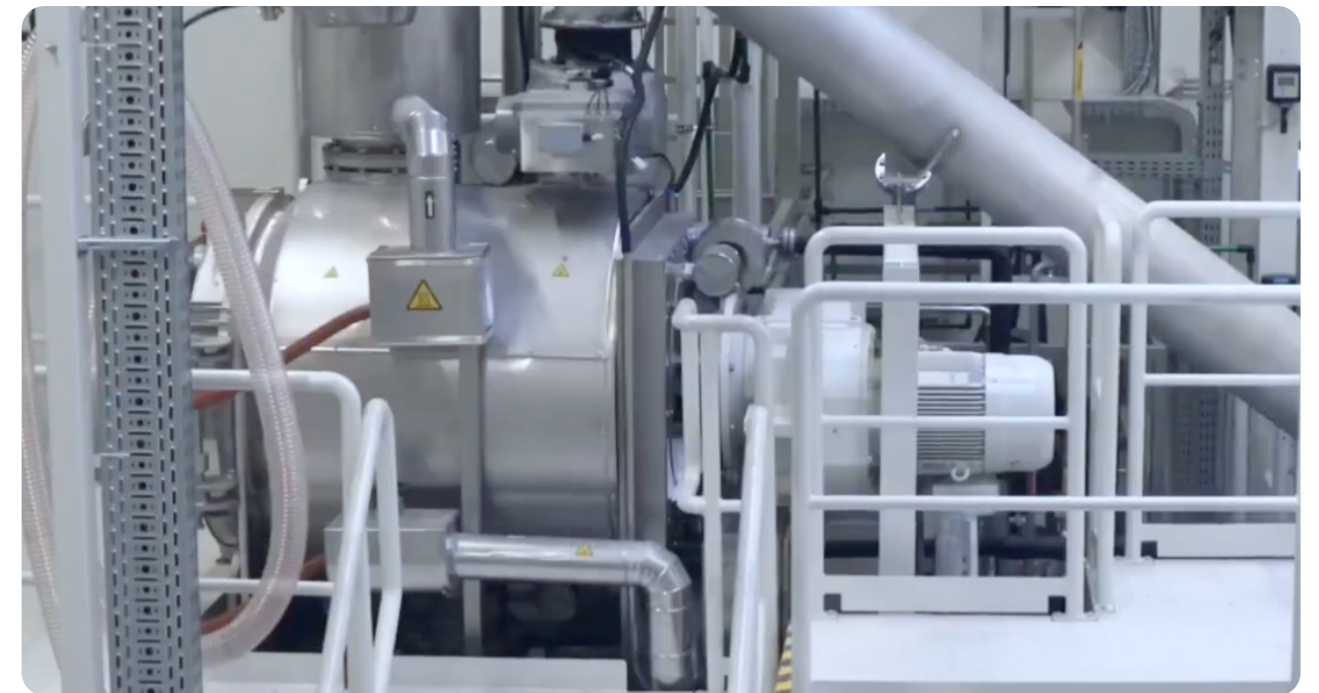
The customer is a leading enterprise in the production of nano-lithium iron phosphate, carbon nanotubes. This project has an annual output of 300,000 tons of anode materials, of which the first phase production capacity is 200,000 tons/year. Our company is responsible for the conveying system of the graphitization workshop of the first phase of the project, which involves feeding, crushing, weighing, screening, demagnetization, packaging and workshop ground dust removal units, and the project is 8 negative pressure conveyor lines and 8 positive pressure conveyor lines. Among them, the longest conveying distance of the negative pressure conveyor line is about 200 meters, the longest distance of the positive pressure conveyor line is about 670 meters, and the conveying capacity of each production line is 4T/H. The material automation handling system that Weijie is responsible for this time mainly undertakes all matters such as feeding, crushing, storage, weighing, screening, demagnetization, packaging and dust removal on the workshop floor. In this project, for the first time in the field of anode materials, the positive pressure conveying method was applied to solve the problem of too long conveying distance, and the negative pressure conveyor line of our company within 200 meters solved the problem very well.



Battery recycling and processing system of an intelligent manufacturing company in Sichuan



The customer is a company specializing in battery recycling and treatment systems. After the waste batteries arrive, they are tested and deeply discharged, and then disassembled to the size of the battery module. They are crushed into granules, and then dried to discharge the electrolyte. After screening, lithium, nickel, manganese, cobalt, and graphite with recycling value are re extracted for further sorting by the magnetic separator. Non magnetic materials are separated, All materials are classified into three categories: "black powder", copper and aluminum, and plastic. "black powder" will be separated into raw materials and used to produce new batteries.



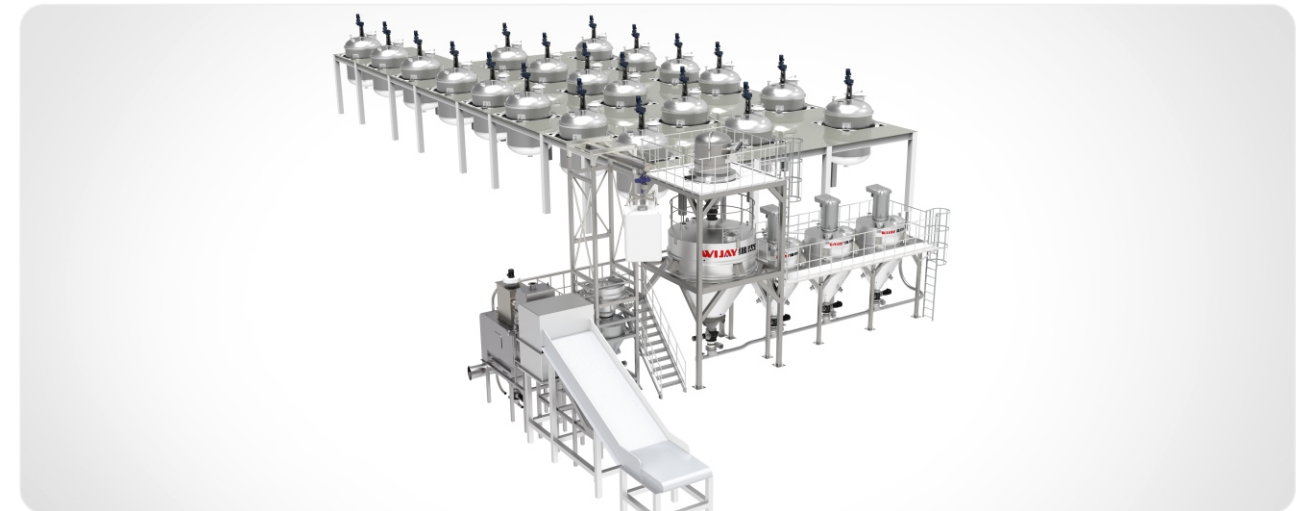
A cathode material pneumatic conveying system project

The customer is a leading enterprise in the production of nano-lithium iron phosphate, carbon nanotubes (CNTs), carbon nanotube conductive liquids and other materials. The project adopts advanced pneumatic conveying technology to transport the cathode material after mechanical grinding to the designated position through the pipeline, so as to realize the automatic and continuous production of the material. The system adopts efficient airflow control device to ensure the stable and fast flow of materials in the pipeline and improve production efficiency. The pneumatic conveying method reduces dust pollution, reduces energy consumption, and meets environmental protection requirements. Achieve reduced production costs, optimize product quality, and enhance the market competitiveness of customers.



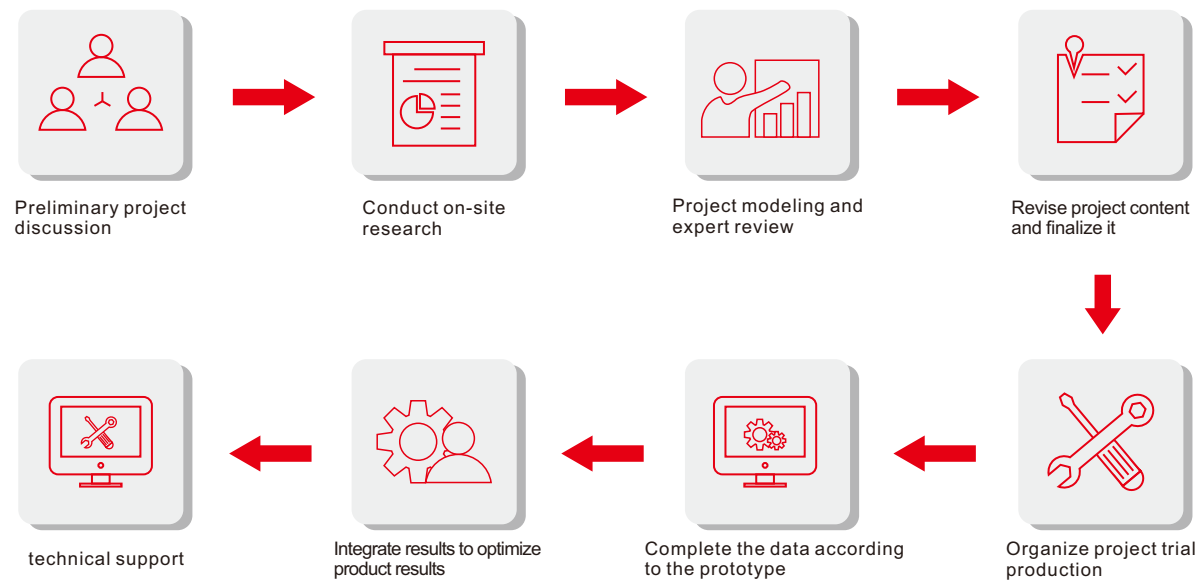
A carbon nanotube automatic batching system project in Jiangxi

The customer's production process is stirred in the reactor according to a certain ratio of the main materials and auxiliary materials, and the system we designed realizes the dust-free unpacking of the main materials and auxiliary materials, the automation of material transportation, the formula weighing and the refinement of weighing accuracy, etc., reducing the customer's personnel costs, and presetting the formula program in the central control system (a variety of formula programs can be preset), one-key calling, and the material can be monitored in the control room to control the production steps and sequence, so as to realize the digital factory.



R&D and manufacturing

Wijay Company adheres to lead the development of the enterprise with technological innovation. We have increased investment in technological research and development, and established a strong material automation system as well as and a core equipment research and design team, including outstanding scientific research and technical talents in the industry.



Continuous Research and Development

Wijay Corporation specializes in end-to-end project management of automated material handling systems for high-hygiene industries, encompassing system planning, design, installation, and commissioning. With a focus on solid material processing, we have independently developed multiple proprietary systems that have earned an exceptional reputation in the industry. Our expertise also extends to handling paste materials and fluid materials. Committed to continuous innovation, Wijay Corporation will persistently develop new systems to exceed customer expectations.

Our Advantage

Wijay Company's extensive project experience gives us a significant edge over our peers.

Advantage A: Simplicity and Efficiency

60%-70% of our components and equipment systems are designed to be simple and efficient.

Advantage B: Stability and Energy Efficiency

Save 20% on maintenance time and reduce energy consumption by 45%-60%.

Advantage C: Intelligent Monitoring

100% system safety, 100% material safety.

Advantage D: Information Management

Full process recording of information and 100% formula confidentiality

Our customers



International Quality Standards

20% of our revenue comes from Fortune 500 companies

60% of our clients rank in the top 3 in their industries

80% of our clients have an annual revenue exceeding 2 billion

Comprehensive Safety Assurance

Material safety assessment and testing

Explosion-proof design for prevention, suppression, containment, and isolation

Safety review during design and implementation

On-time and Efficient Delivery

<15 days for process, mechanical, and electrical design

<45 days for equipment, electrical control, and manufacturing

<15 days for on-site installation, commissioning, and testing

Ultimate Cost-Effectiveness

Minimalist design philosophy

highly efficient team

Self-developed and self-manufactured components

