



# 打造柔性智能的物料处理整体解决方案

Flexible & Intelligent Turnkey Solutions For Material Handling

MESNAC 浙江软控 MESNAC 浙江软控 MESNAC 浙江软控 MESNAC 浙江软控 MESNAC 浙江软控

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# MESNAC

1992年起，软控开始研发设计气力输送系统，业务涵盖化工、食品、医药、锂电等众多领域，并于2020年成立浙江软控智能科技股份有限公司，专业承接物料处理业务，目前已成为国内物料处理领域的领先品牌，在锂电行业配料系统市场占有率达第一。

Since 1992, MESNAC developed pneumatic conveying system, and its business covers such fields as chemical industry, food, medicine, lithium battery, etc. In 2020, Zhejiang MESNAC Intelligent Technology Co., Ltd. was established to specialize in material handling business. It has now become a domestic leading company in material handling field and has the largest share in the batching system market.

**1992**

成立 Founded

**2006**

IPO

**10 Billion+ RMB**

销售收入 Sales Revenue

占地面积  
Construction Area

821,000+ m<sup>2</sup>

MESNAC  
员工总数  
Employees

4,900+

研发工程师  
R&D Engineers

1600 +

全球分支机构  
Global Branches

15

已获认证系统  
Certification system

CE/UL

输送|搅拌系统年产量  
Annual output of dosing and mixing systems

1200+ | 600+



青岛总部 Headquarter

青岛基地 Base 1

诸暨基地 Base 2

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## 1992

成立课题组，开始研发设计称量  
配料及气力输送系统

Development of pneumatic  
conveying system

## 2003

进入油墨行业，将软控技术  
烙印在人民币之上

Responsible for banknote  
ink of China

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## 2006

为大型食品/医药客户提  
供物料处理解决方案

New competition in the  
food and medicine  
industry

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## 2010

进入化工行业，提供智能化  
ABS粉粒料输送系统

Intelligent ABS Powder  
and Granular Material  
Conveying System

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## 2011

亚洲最大的软控物料处理  
技术中心投入使用

The Largest Material  
Handling Technology  
Center in Asia

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## 2013

### 软控

深度合作ATL&CATL，成为锂电行业知名供应商

Cooperation with ATL&CATL, as a well-known  
supplier in lithium battery industry

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## 2020

浙江基地开工，开启战略发展新征程

Zhejiang MESNAC Intelligent Technology Co.,  
LTD was established

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## 2017

形成化工、食品、医药、锂电多维发展业态

Multi-dimensional development of chemical  
industry, food, pharmaceuticals and lithium  
battery

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## 2024

致力于提供智能整线解决方案，持续  
研发创新，进行全球化部署

Flexible & Intelligent Turnkey  
Solutions and Expand Overseas  
Operation

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AAC 浙江软控



- 核心产品均通过CE/UL体系认证 Passed CE/UL certification

- 全国管道物料输送技术委员会理事长单位 Chairman Unit of National Technical Committee for Pipeline Material Handling

- “高精度自动物料输送称量配料系统”荣获“国家科学技术进步二等奖” High precision automatic material conveying, weighing and batching system won the second prize of National Science and Technology Progress Award

- ISO 9001:2015 质量管理体系认证 Quality Management System Certification

- ISO 14001:2015 环保管理体系认证 Environmental Management System Certification

- ISO 45001:2018 职业健康安全管理体系认证 Occupational Health and Safety Management System Certification

- ISO/IEC 27001:2022 信息安全管理体系建设 Information Security Management System Certification

- 机电工程总承包资质、化工工程安装资质 Mechanical and electrical engineering general contracting qualification, chemical engineering installation qualification

- 防爆认证TPS 22 ATEX Explosion-proof certification TPS 22 ATEX

- 压力容器PED认证 Pressure Equipment Directive PED certification

- 软件企业国际认证CMMI3 International certification of software enterprises CMMI Level 3

- EcoVadis企业可持续发展水平-金牌评级 EcoVadis Corporate Sustainability Ratings - Gold Medal

## 专利布局



专利 Patent

共申请(拥有)专利近1300项

Nearly 1,300 patents have been applied for (owned)

其中发明专利570余项

More than 570 invention patents

海外专利100余项.....

More than 100 overseas patents

## 软件著作权



软件著作权

Software Copyright

获得160余项

More than 160

## 科技进步



1

国家科技进步奖  
National Science and  
Technology Progress  
Award



30

省部级科技奖励  
Provincial and  
ministerial science and  
technology awards



4

国际标准  
International  
standards



87

国家及行业标准  
National and  
industry standards



70

国家级科技项目  
National science  
and technology  
projects

**●近千亩的国内外加工装配基地（中国、美国、斯洛伐克）**

A total of nearly 165 acres of manufacturing & assembly area (in China, USA, Slovakia).

**●引进美国、德国、斯洛伐克等国的制造专家，打造专业的加工装配队伍**

World-class manufacturing experts are introduced to build a professional team.

**●拥有准备、焊接、机加、热处理、喷漆等专业车间及专业设备并设有恒温车间**

Workshops & equipment for preparation, welding, machining, heat treatment, painting, etc and constant temperature workshop.

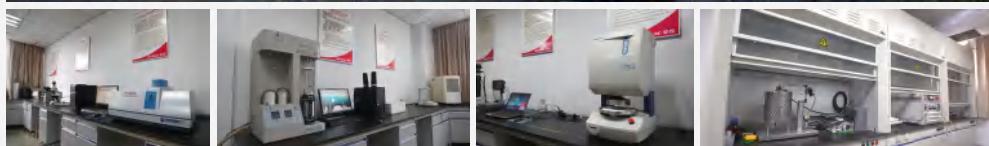
**●进口龙门加工中心、数控加工中心、落地镗、车削中心、深孔钻等200多台大型数控精密加工设备，加工精度可达μ级**

More than 200 large-scale CNC precision machining equipment with accuracy up to  $\mu$  level.

**●数千件各类精准的检测器具，包括百余台金属原材料检验设备及质量控制测量设备**

Thousands of testing equipment, including more than 100 metal raw material inspection equipment and quality control measuring equipment.





●该中心主要从事粉体物性测试、基础理论研究、先进工程技术试验和学术交流等，并根据ISO17025标准搭建了完善的实验测试体系

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The center is mainly engaged in powder physical property testing, basic theoretical research, advanced engineering technology testing and academic exchanges, and has established a complete experimental testing system according to ISO17025 standard.

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400m+气力输送实验系统

400m+ Pneumatic conveying experimental system

50+

物料特性测试仪器

Material property test instruments

10000+

累积10000+ 物料数据  
Accumulate 10000+ material data



与多所国际知名实验机构建立紧密合作关系  
Close cooperation with internationally renowned experimental institutions

**美国销售及售后服务中心**  
US Sales and After-Sales Service Center(Ohio)

**浙江软控**

**美国装备制造中心**  
US Equipment Manufacturing Center(Tennessee)

**MESNAC 浙江软控**

**英国研发中心**  
UK Research and Technical Center

**MESNAC 浙江软控**

**欧洲销售及售后服务中心**  
European Sales and After-Sales Service Center(Frankfurt, Germany)

**匈牙利德布勒森分公司**  
Hungary Subsidiary Company (Debrecen)

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**欧洲装备制造中心**  
European Equipment Manufacturing Center(Trenčín, Slovak)

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**印度销售及售后服务中心**  
India Sales and After-Sales Service Center(Pune)

**MESNAC 浙江软控**

**泰国服务中心**  
Thai Service Center

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**浙江总部**  
Zhejiang Headquarters  
山东研发中心  
Shandong Research and Technical Center

**MESNAC 浙江软控**

**日本服务中心**  
Japan Service Center

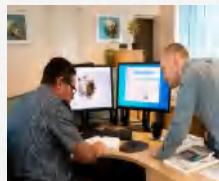
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**越南服务中心**  
Vietnam Service Center

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**巴西服务中心**  
Brazilian Service Center

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**英国研发中心**  
UK Research and Technical Centre



**欧洲研发中心**  
US Equipment Manufacturing Center



**北京研发中心**  
Beijing Research and Technical Centre



**美国研发中心**  
US Equipment Manufacturing Center



**青岛研发中心**  
Qingdao Research and Technical Centre



**深圳研发中心**  
Shenzhen Research and Technical Centre



**德国销售中心**  
EU Sales center



**美国销售中心**  
US Sales Center

# "零距离"售后服务体系 After-Sales Service

24H售后服务热线400-6899-360



形成以“智能装备-物料处理系统-智能配套服务”为强支撑的整线产业布局，为各行业客户打造柔性智能的整体解决方案，助力产能升级。

MESNAC has been engaged in **Intelligent Equipment-Material Handling System-Intelligent Supporting Service**, providing flexible and intelligent turnkey solutions for customers in

various industries to upgrade production capacity.

## 智能装备 Intelligent Equipment

## 物料处理系统 Material Handling System

## 智能配套服务 Intelligent Supporting Service

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Coating Machine

HSM High Speed Dispersion Mixer

Calendering & Slitting Machine

DSM Double Screw Continuous Mixer

Intelligent Logistics

MES System

Robot

ASRS

RFID System

HVM 双行星搅拌机

Dust-free Unpacking System

Clean Material Handling System

Automatic Magnetic Filter

料仓存储系  
统

Silo Storage System

搅拌均化系统

Stirring Homogenization System

高精度自动配  
料系统

High Precision Automatic Batching System

溶剂系统

Solvent System

自主气控单元

Air Control Unit

浆料系统

Sizing Agent System

吨包/小包自动破包机

Automatic Bag Unpacking Machine

HSM 高速分散制浆系统

HSM High Speed Dispersion Mixer

DSM 双螺杆连续混料系统

DSM Double Screw Continuous Mixer

涂布机

Coating Machine

辊压分切机

Calendering & Slitting Machine

智慧物流

Intelligent Logistics

MES 系统

MES System

机器人

Robot

智能立库

ASRS

RFID 系统

RFID System

专业从事各种粉粒体物料的气力输送、配料计量、混合均化系统以及固液两相流定制化系统及整线装备的研发制造。

MESNAC specializes in the R&D and manufacturing of pneumatic conveying, dosing and metering, slurry-mixing systems for various powder and granular materials, as well as customized solid-liquid two-phase flow systems.

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# 新能源 \_ New Energy

Li

锂电池生产极片段整体解决方案  
Turnkey solution for lithium battery electrode production

Na

钠电池生产极片段整体解决方案  
Turnkey solution for sodium battery electrode production

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原材料立库  
Raw material warehouse

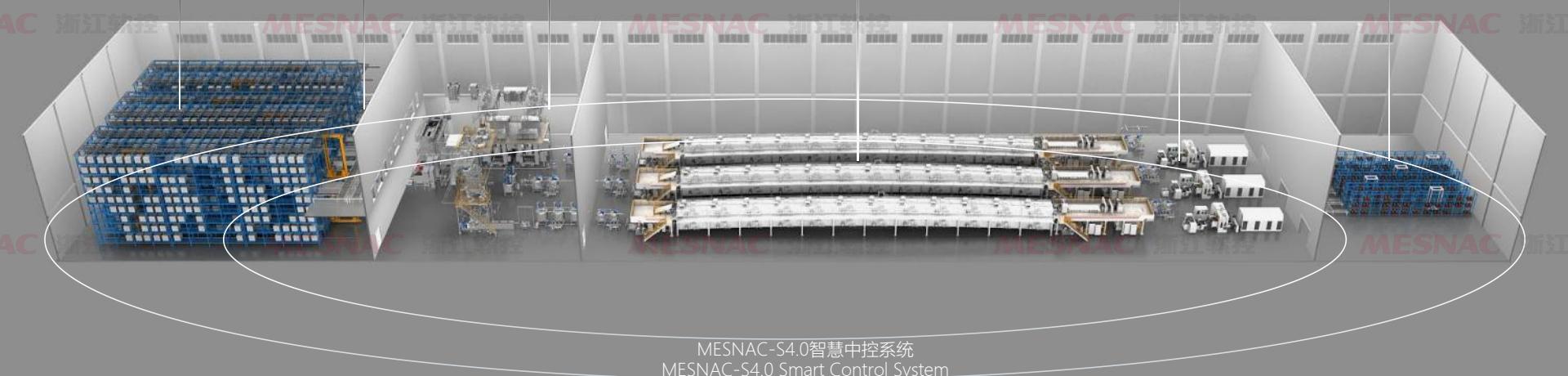
智能物流  
Intelligent logistics

配料&匀浆  
Dosing and mixing

涂布  
Coating

辊压分切  
Calandering and slitting

极片库  
Electrode warehouse



配料&匀浆\_Dosing and mixing

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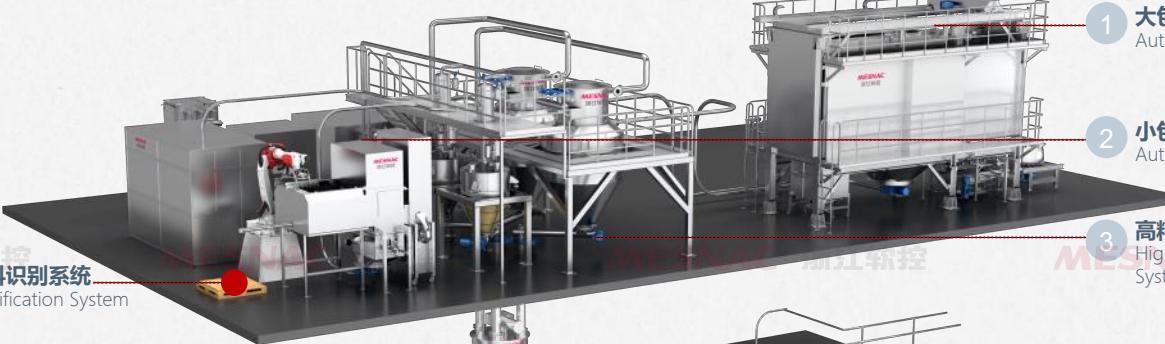
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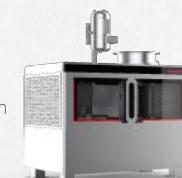
7  
RFID物料识别系统  
RFID Identification System



1 大包自动破包机  
Automatic Big-Bag Unpacking Machine

2 小包自动破包机  
Automatic Small-Bag Unpacking Machine

3 高精度自动称量配料系统  
High Precision Automatic Dosing System



4 高速分散制浆系统  
High-speed Dispersion Mixer



5 双行星搅拌机  
PD Mixer(Optional)

6 双螺杆连续混料系统  
Double Screw Continuous Mixer(Optional)



MESNAC自主研发智能匀浆装备

MESNAC develops its own intelligent dosing & mixing equipment

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高速分散制浆系统  
High-Speed Dispersion Mixer



双行星搅拌机  
PD Mixer



双螺杆连续混料系统  
Double Screw Continuous Mixer



小包自动破包机  
Automatic Small-Bag Unpacking Machine



大包自动破包机  
Automatic Big-Bag Unpacking Machine

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自动清料双套管  
Double-layer pipe



自主气控单元  
Air control unit



螺旋/气缸清料  
Screw/Cylinder Cleaning Technology



双层重力落料管道  
Double-layer Pipe of Gravity Blanking



发球清洁装置  
Solvent & slurry cleaning system



大包手动解包机  
Normal type of Big Bag



小包半自动吸料枪  
Suction System of Small Bag



大包自动吸料装置  
Automatic Suction System of Big-bag



溶剂自动吸料装置  
Solvent automatic absorbing

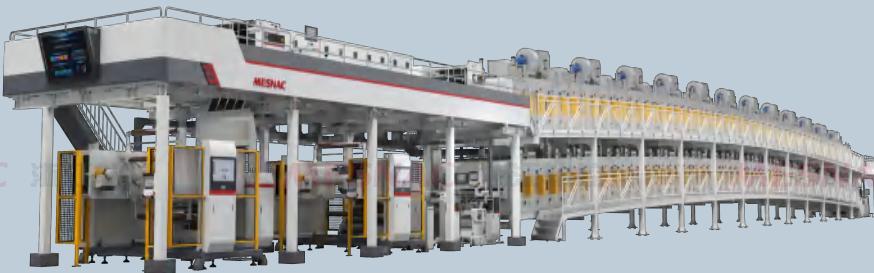


自动除铁器  
Automatic Magnetic Filter



粘性物料-软斗料仓  
Soft scale hopper

MESNAC自主研发智能涂辊分装备  
MESNAC develops its own intelligent coating & calandering and slitting equipment



涂布机

Coating Machine



辊压分切机

Calendering & Slitting Machine

涂布宽度 Coating Width $\leq 1600\text{mm}$	涂布速度 Coating Speed $\leq 120\text{m/min}$	区域密度精度 Area density accuracy $\leq 1.0\%$	张力精度 Tension Accuracy $\leq \pm 1\text{N}$	收放直径 Winding and unwinding diameter $\leq 1200\text{mm}$	设备稼动率 Utilization of equipment $\geq 98\%$	产品优率 Product qualification rate $\geq 99.5\%$
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辊压宽度 Roll Width $\leq 1500\text{mm}$	辊压速度 Roll Speed $\leq 120\text{m/min}$	轧辊直径 Roll Diameter $\leq 900\text{mm}$	张力精度 Tension Accuracy $\leq 5\text{N}$	收卷承重 Winding Bearing $\leq 1000\text{KG}$	设备稼动率 Utilization of Equipment $\geq 85\%$	产品优率 Product Qualification Rate $\geq 99.8\%$
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MESNAC自主研发干法电极制造设备

MESNAC develops its own dry electrode manufacturing equipment

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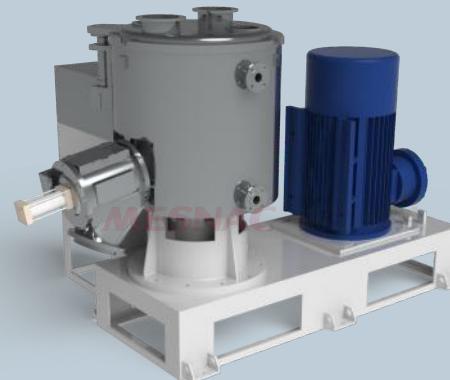
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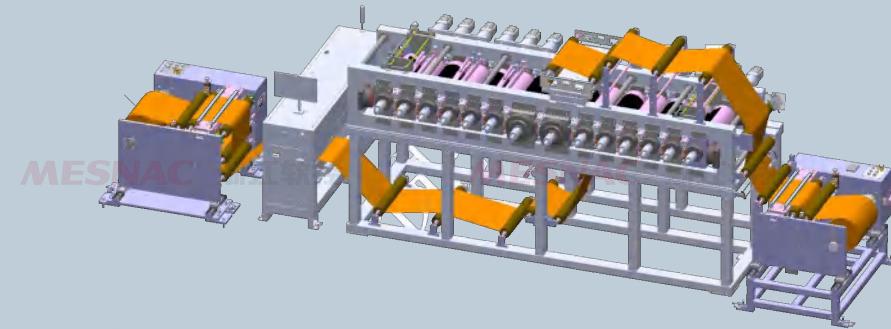
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干法搅拌技术  
Dry mixing technique  
MESNAC 加工软控



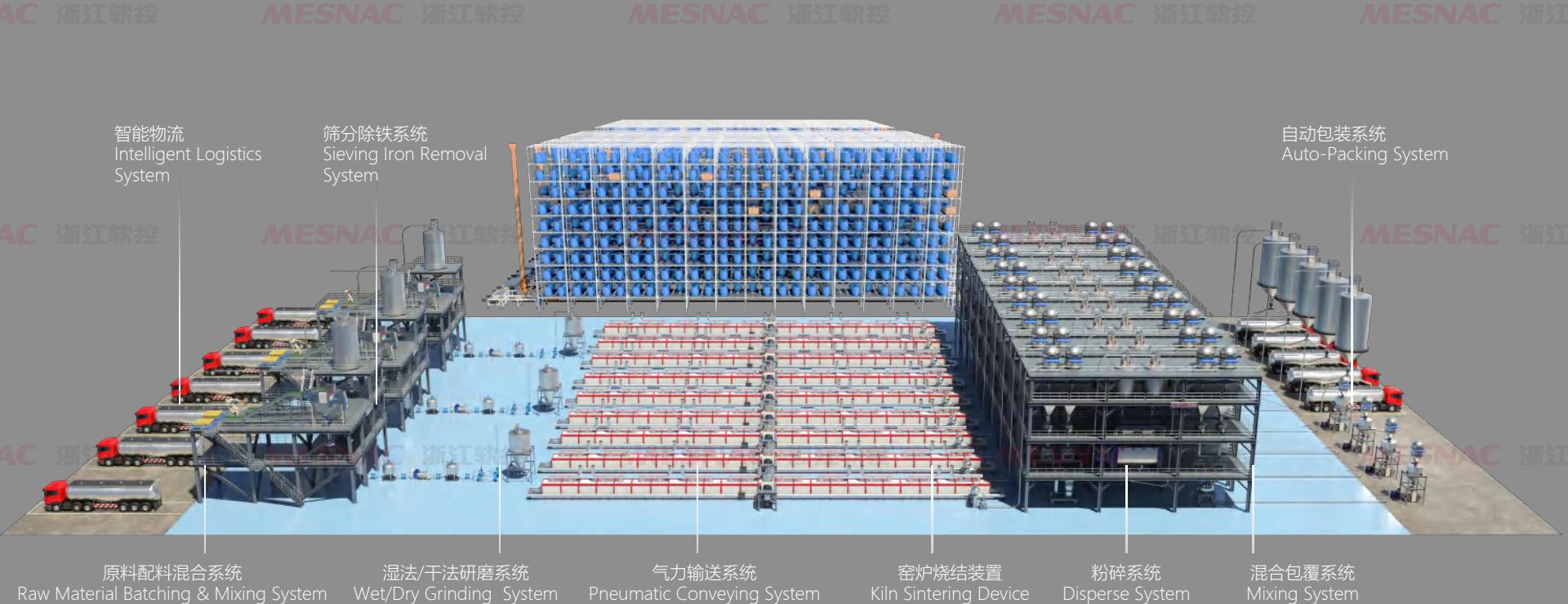
干法辊压复合技术  
Dry calendering and composite technique  
MESNAC 加工软控

AC 浙江软控

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# 电池材料 \_ Battery Materials

锂电池材料生产整体解决方案  
Battery Material Production Turnkey Solution



## 新能源领域累计创造产能超2000GWh

Cumulative Production Capacity in the New Energy Field: Over 2000GWh

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## Battery Production



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## Battery Material Production



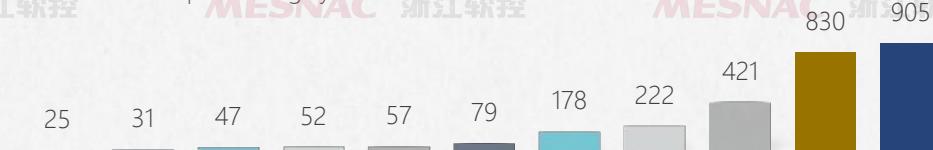
## 深度合作C公司&A公司，成为C公司指定合作商，配套约1000GWh产能

Deep cooperation with client-C & client-A. Designated supplier of client-C, 1000GWh + delivered



### 2014年-2024年提供原料处理系统套数

Raw material processing systems to client-C from 2013 to 2024



Since 2013, MESNAC has been providing client-C with raw material processing system services, with sales increasing year after year  
自2013年开始，持续稳定得为C客户提供原料处理系统服务，销量呈现连年增长趋势

## 锂电行业头部客户覆盖率达到100%，与重大客户 建立战略合作关系，成为锂电行业知名供应商

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100% coverage of top companies in the lithium battery industry; Establish strategic partnerships with major clients and become a well-known supplier in the lithium battery industry

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为客户提供柔性智能的  
整体解决方案  
Flexible and intelligent  
turnkey solutions

MESNAC 浙江软控



自研产品得到  
客户验证使用  
Self-developed products  
recognized by clients

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满足10万级洁净厂房防  
爆等特殊要求  
100K Clean Workshop  
explosion-proof

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## Client-S, Client-H, Client-A



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## Client-T, Client-Z, Client-R



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### 撬块案例——Modular Assembly Case



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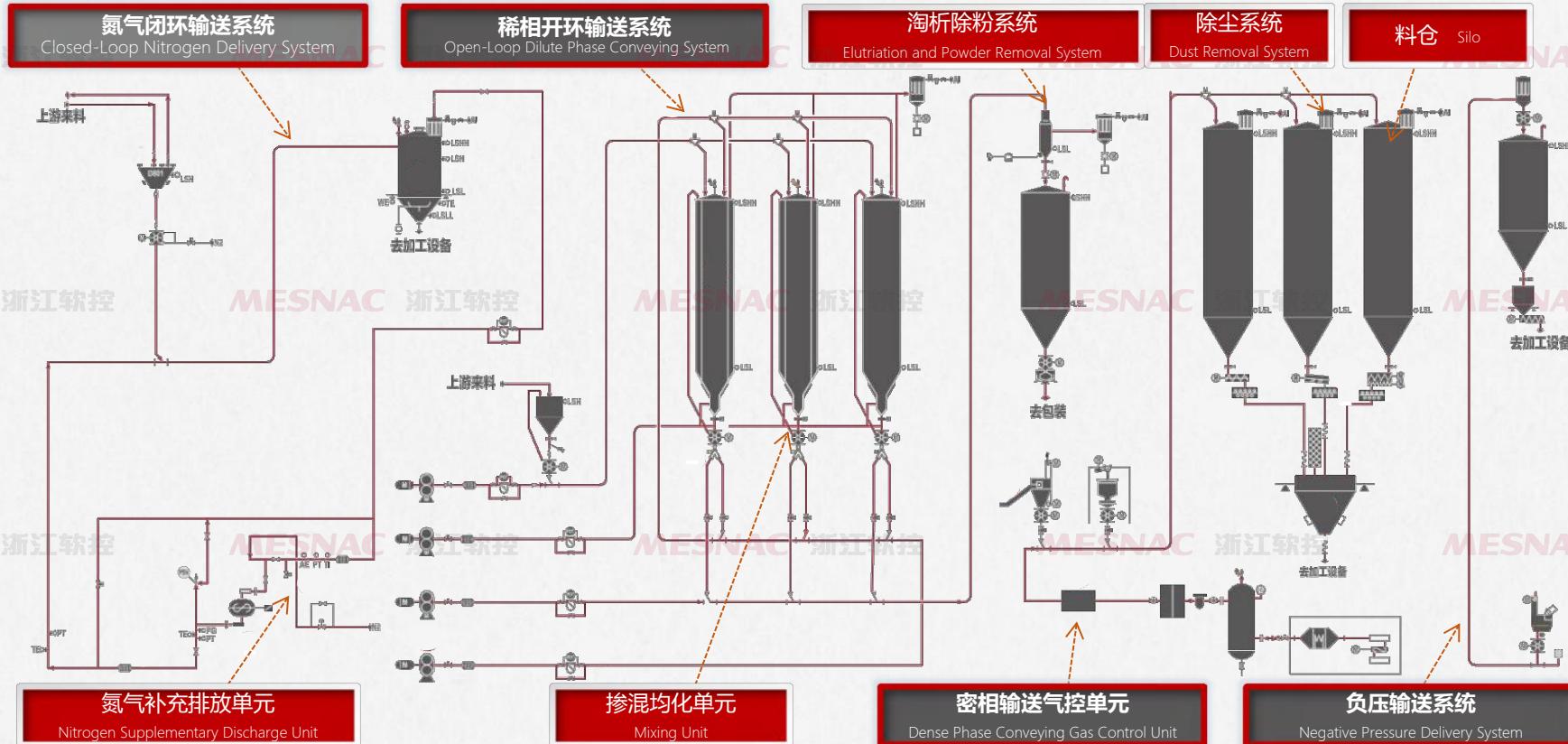
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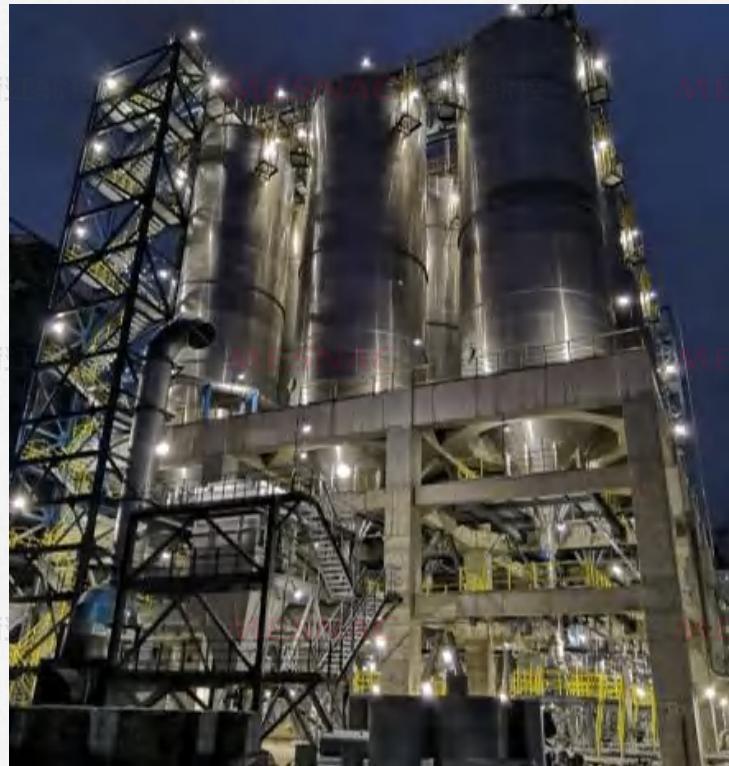
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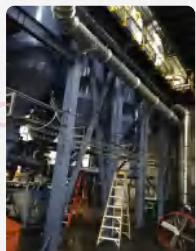
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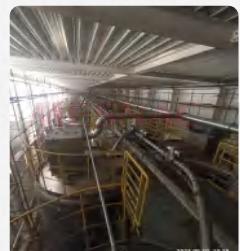
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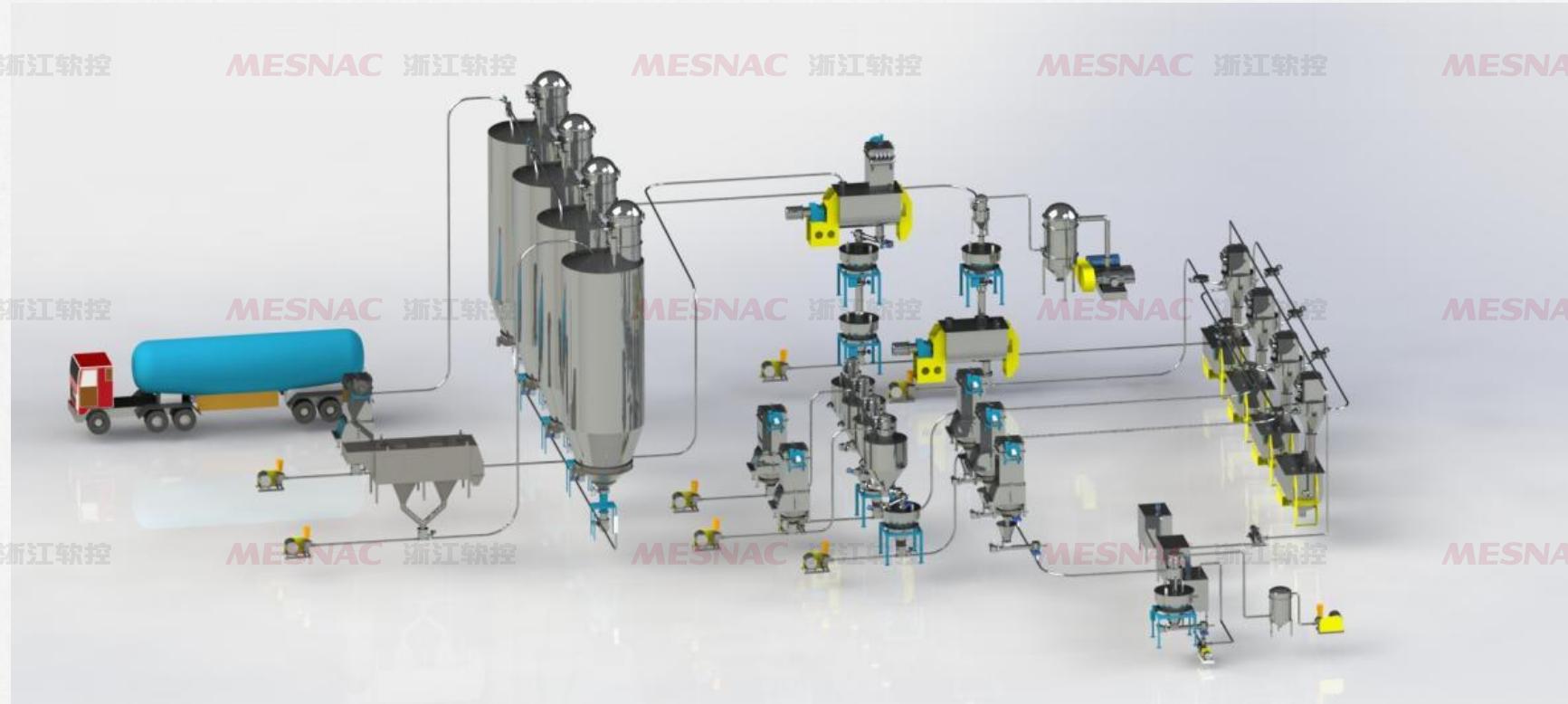
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# 食药行业物料处理系统整体解决方案

MESNAC 浙江软控

Turnkey Solution for Material Handling System of Food and Pharmaceuticals Industry



# 食药领域合作TOP级客户\_ Partnership with Top Customers in the Food and Pharmaceutical Industry

MESNAC 浙江软控

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# 打造柔性智能的物料处理整体解决方案

FLEXIBLE & INTELLIGENT TURNKEY SOLUTIONS FOR MATERIAL HANDLING