

MESNAC 浙江软控

www.mesnactech.com

打造柔性智能的物料处理整体解决方案

Flexible & Intelligent Turnkey Solutions For Material Handling

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化工行业/食品制药行业解决方案

Turkey Solutions in Chemical, Food, Pharmaceutical Industries

11293km²

总面积
Gross area

1.67trillion

2024
GDP

国际帆船之都

The international
capital of sailing

世界啤酒之城

Beer city of the
world

世界橡胶工业重镇

Rubber City of the
world

世界十大港口之一

One of the top ten
seaports in the world

青岛是中国沿海重要的中心城市和国际港口城市。拥有家电、轨道交通装备、汽车等一批千亿级产业链及众多世界知名企业。对外经济发达，国际交通十分便利。

Qingdao is an important city in China's coastal areas and an international port city. It has a batch of 100-billion-level industrial chains such as home appliances, rail transit equipment and automobiles, and a large number of world-renowned enterprises. It has a developed export economy and is very convenient for international transportation.



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，专业于电池材料生产，电池材料输送，电极生产以及集成的物流系统领域，目前已成为上述领域的领先品牌

Since 1992, MESNAC developed the pneumatic conveying system, and later its business expands across chemical, food, pharmaceutical, lithium battery industries, etc. In 2020, Zhejiang MESNAC Intelligent Technology Co., Ltd. was established and dedicated in the areas of battery material handling, battery cathode&anode production, battery electrode production and integrated ASRS system. Today, MESNAC has successful established itself as the leading supplier in the above mentioned areas

1992

成立
Founded

2006

IPO

NO.1

橡胶领域全球第一
Global No.1 in
Rubber Machinery

40 Billion+ RMB

销售收入
Sales Revenue

关于软控

About MESNAC

MESNAC 浙江软控
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占地面积
Footprint

821,000+m²

员工总数
Employees

4,900+

研发工程师
R&D
Engineers

1600 +

全球分支机构
Global
Branches

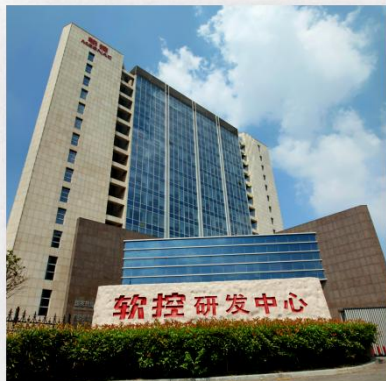
15

已获认证系统
Certification

CE/UL/BIS

输送|搅拌系统年产量
Annual Throughput of
Conveying and Mixing systems

1200+ | 600+



青岛总部
HQ Qingdao



青岛基地
Base Qingdao



诸暨基地
Base Zhuji

新能源领域业务发展历程

Milestones

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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

Developed the metering, dosing and pneumatic conveying system

2003

进入油墨行业，将软控技术烙印在人民币之上

Delivers solution for printing ink industry, and apply our technology into the RMB

2006

为大型食品/医药客户提供物料处理解决方案

Delivers solutions for food and pharmaceutical industry

2011

亚洲最大的软控物料处理技术中心投入使用

The Largest Material Handling Center across Asia put into use

2013

深度合作ATL&CATL，成为锂电行业知名供应商

In-depth partnership with ATL&CATL, becoming a well-known supplier in lithium battery industry

2017

深耕锂电领域，形成多维发展业态

Dedicated to the lithium battery industry, forming a multi-industry development trajectory

2019

深度合作德方纳米、当升科技、长远锂科、容百、天原集团等电池材料企业

In-depth partnership with Dynanonic, Easpring, Changyuan Lico, Ronbay, Tian Yuan, etc

2022

承接新能源行业海外订单，逐渐扩大全球化布局

Extend to overseas market and expand our global presence

2023

致力于提供新能源行业智能整线解决方案，持续研发创新，进行全球化部署

Provide Flexible & Intelligent Turnkey Solutions for Lithium Battery Industry

全球专利布局 引领行业技术创新

Patents that leads the industry

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- 核心产品均通过CE/UL/BIS体系认证 Passed CE/UL/BIS 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 信息安全管理体系统认证 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 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 Software Copyright

获得**160**余项
More than 160



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



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



国际标准
International standards



国家及行业标准
National and industry standards



国家级科技项目
National science and technology projects

Professional Processing Ability to Achieve Excellent Quality

●近千亩的国内外加工装配基地（中国、美国、斯洛伐克、泰国）

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

●引进美国、德国、斯洛伐克、泰国等国的制造专家，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.

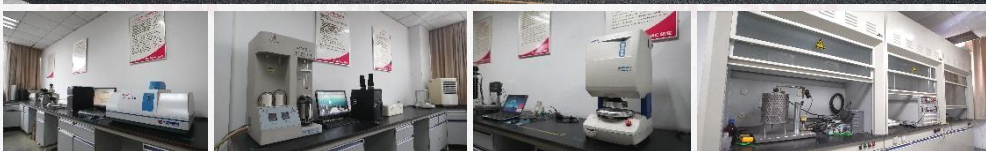
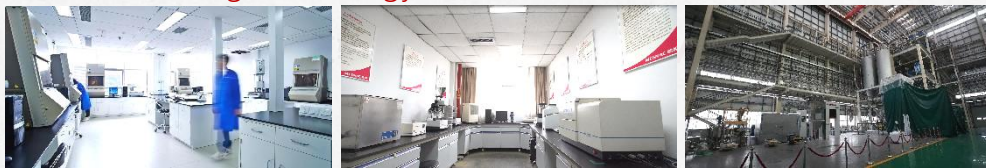
●进口龙门加工中心、数控加工中心、落地镗、车削中心、深孔钻等200多台大型数控精密加工设备，加工精度可达 μ 级

More than 200 large-scale CNC precision machining equipment with accuracy up to μ 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

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.

400

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

Localised Deployment: R&D, Sales, Production, and Assembly for Rapid Response

全球化本土化部署 研销产装 快速响应

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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



欧洲销售中心

EU Sales Center

📍 德国法兰克福
[Frankfurt, Germany](#)

21+ Employees



欧洲装备制造中心

EU equipment manufacturing center

📍 斯洛伐克特伦欽
[Trenčín, Slovak Republic](#)

235 + Employees



美国销售中心

US sales center

📍 美国俄亥俄州 Ohio, the U.S

10+ Employees



美国装备制造中心

US equipment manufacturing center

📍 美国田纳西州 Tennessee, the U.S

120+ Employees



印度销售及售后服务中心

India Sales and After-Sales Service Center

📍 印度浦那 Pune, India

61+ Employees



泰国装备制造中心

Thai equipment manufacturing center

📍 泰国罗勇府 Rayong, Thai

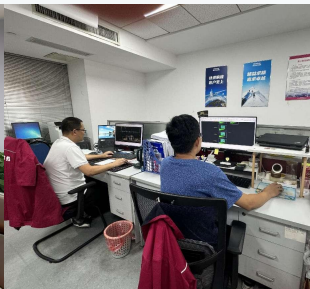
235 + Employees

India Market Expansion: Full-Scale Penetration with Accumulated Mass Production Project Experience and Upgraded Localized Service Capabilities

印度市场 全面开拓 | 量产项目经验积累 本土化服务能力跃升



Contract Signing



Design



FAT



Delivered & Installed



I&C

30

Skilled Manpower

Expert Mechanics & Electricians
specialized in Installations.

12

Mechanical Engineer

Specialized in Erection and
Assembly of Equipment's.

9

Electrical Engineer

Specialized in Control , I/O,
Interfacing and debugging.

10

Commissioning Engineer

Expert in Multiple Software and
programming.

Carefree After-Sales Service

24/7 售后服务热线
24/7 Service Line 400-6899-360



Constant R&D Effort to Deliver the Whole Line Solution

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 dedicated in Intelligent Equipment-Material Handling System-Intelligent Supporting Service, providing flexible and intelligent turnkey solutions to accommodate various customer's requirements.



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 turnkey solutions for solid, liquid systems.



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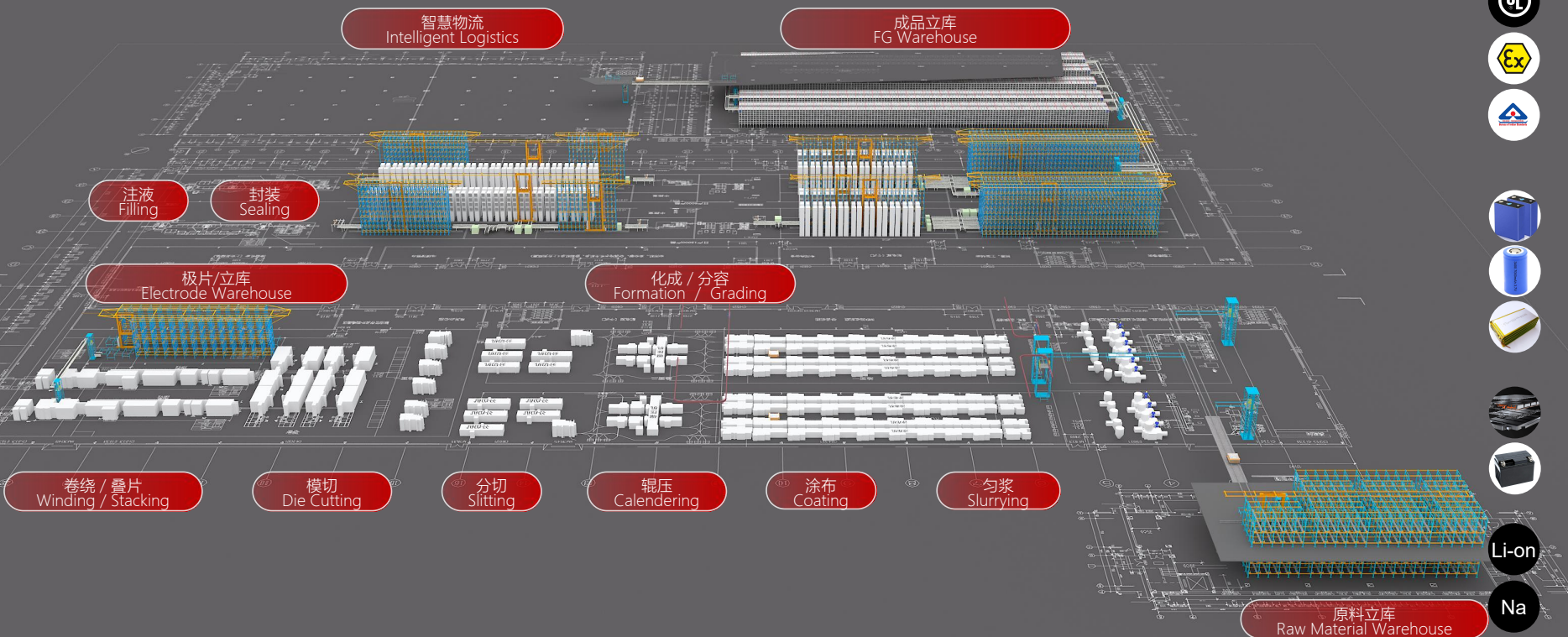
Turkey Solutions in Chemical,Food,Pharmaceutical Industries

动力电池&储能电池生产整体解决方案

Turnkey Solution for EV/ESS Battery Production

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5-10GWh磷酸铁锂圆柱动力电池单生产线
5-10GWH LFP Cylindrical Power Battery Production Line



极片段整体解决方案

Turnkey Solution for 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
Calendering and slitting

极片库
Electrode
warehouse

锂电池极片生产数字化平台(EDP)
Electrode Production Digital Platform



Li-on

Na

匀浆系统整体解决方案

Turnkey solution for dosing and mixing system

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智能机器人
Intelligent Robot

RFID物料识别系统
RFID Identification System

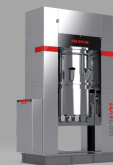
大包全自动破包机
Automatic Big-Bag Unpacking Machine

小包全自动破包机
Automatic Small-Bag Unpacking Machine

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

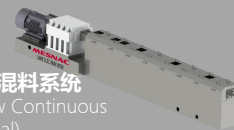
溶剂全自动吸料机
Automatic Solvent Suction Machine

高速分散制浆系统
High-speed
Dispersion Mixer



双行星搅拌机
PD Mixer(Optional)

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

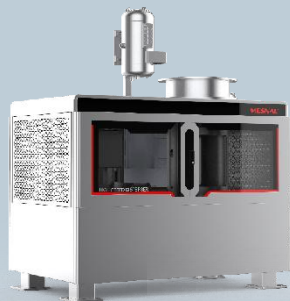


The In-house Designed Intelligent Dosing & Mixing Equipment

MESNAC 浙江软控

MESNAC 浙江软控

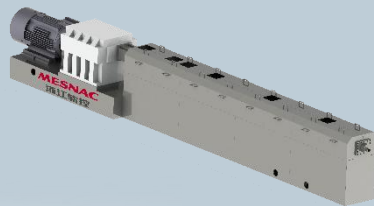
MESNAC 浙江软控



高速分散制浆系统
High-Speed Dispersion Mixer



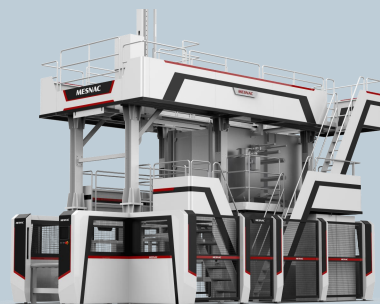
双行星搅拌机
PD Mixer



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



自动清料双套管
Double-layer pipe
for automatic
residual material
cleaning



自主气控单元
Air control unit



螺旋/气缸清料
Screw/Cylinder
Cleaning Technology



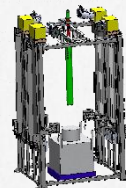
双层重力落料管道
Double-layer Gravity
Feed Chute



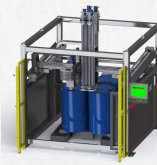
发球清洁装置
Pigging ball
cleaning device



大包手动解包机
Manual unpacking
machine for big bag



大包自动吸料装置
Automatic suction device
for big bag



溶剂全自动吸料机
Automatic Solvent
Suction Machine



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

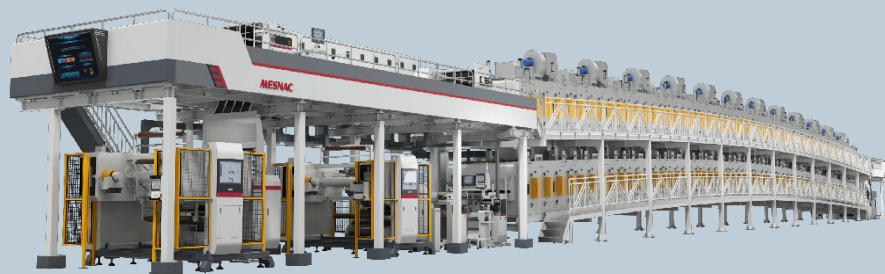
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The In-house Designed Intelligent Coating, Calendaring, Slitting Equipment

MESNAC 浙江软控

MESNAC 浙江软控

MESNAC 浙江软控



涂布机

Coating Machine



辊压分切机

Calendering & Slitting Machine



涂布宽度

≤1600mm

Coating width



涂布速度

≤120m/min

Coating speed



区域密度精度

≤1.0%

Area density accuracy



张力精度

≤±1N

Tension accuracy



收放直径

≤1200mm

Winding and unwinding diameter



设备稼动率

≥98%

Equipment utilization rate



产品优率

≥99.5%

Product qualification rate



辊面宽度

1800mm

Rolling width



辊压速度

≤120m/min

Rolling speed



轧辊直径

1200m
m

Roll diameter



张力精度

≤±2N

Tension accuracy



收卷承重

≤1000KG

Roll up load-bearing capacity



设备稼动率

≤85%

Equipment utilization rate



产品优率

≥99.8%

Product qualification rate

Dry Electrode Manufacturing, Solvent-Free Production Line

头部客户正式交付使用

Operational Deployment at Top Cell Maker Sites

能源消耗-50% 厂房面积-20%

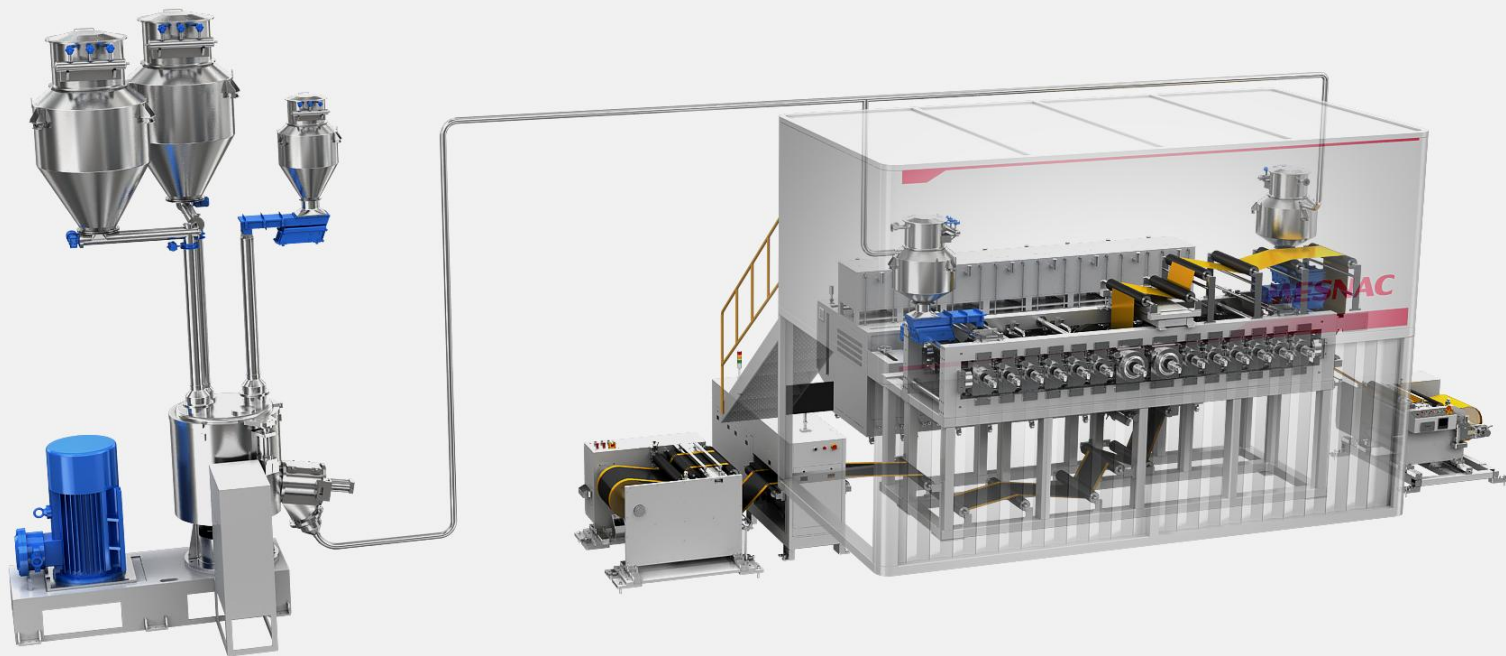
设备投资-20% 电池成本-10%

Reduce Energy consumption by > 50%

Reduce Plant area by > 20%

Reduce Equipment capex by > 20%

Reduce Battery cost by > 10%



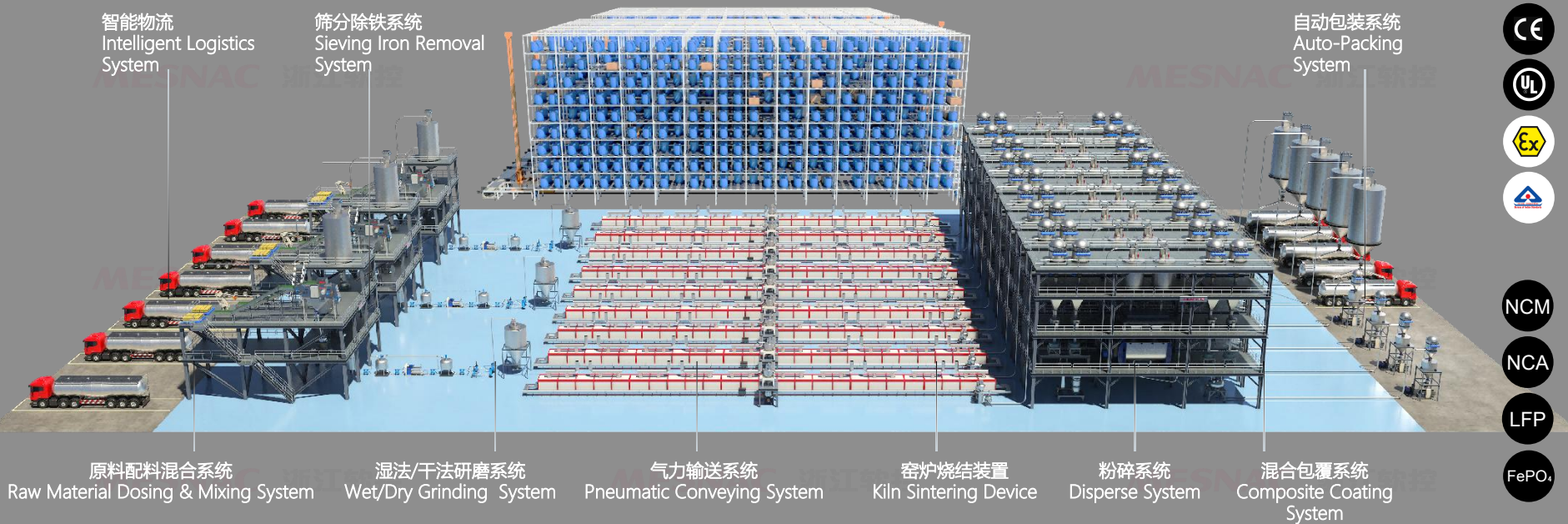
锂电池材料生产整体解决方案

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Turnkey solution for battery material production

10万吨磷酸铁锂材料生产线

A 100,000-ton LFP material production line



新能源领域累计创造产能超2000GWh

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

MESNAC 浙江软控

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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，持续稳定地为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

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



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



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



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

Client-S, Client-H, Client-A



Client-T, Client-Z, Client-R



Modularized Shipment: Accelerating Overseas Project Delivery Speed



BEFORE

AFTER

部套组装
Separate assembly

A

B

C

A

B

C

现场安调

I&C at Site

所需工时

Man-hour required



*5days



*3days



*2days



*1days

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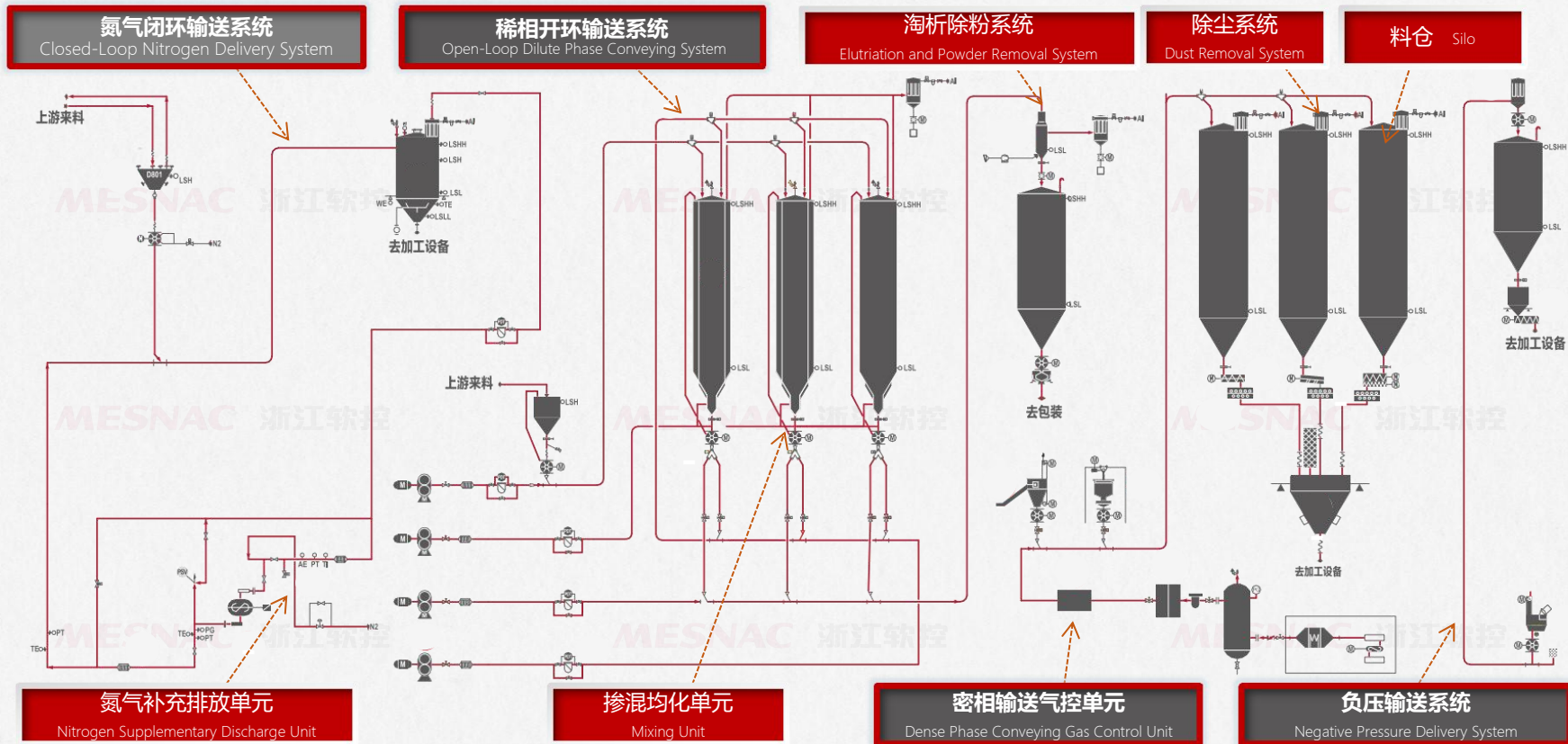
Turnkey Solutions for Battery Production

03

| 化工行业/食品制药行业解决方案

Turkey Solutions in Chemical,Food,Pharmaceutical Industries

Turnkey Solution for Material Handling System of Chemical Industry



化工领域合作TOP级客户

Partner with Top Customers in the Chemical Industry

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USA Project 1



USA Project 3



USA Project 2



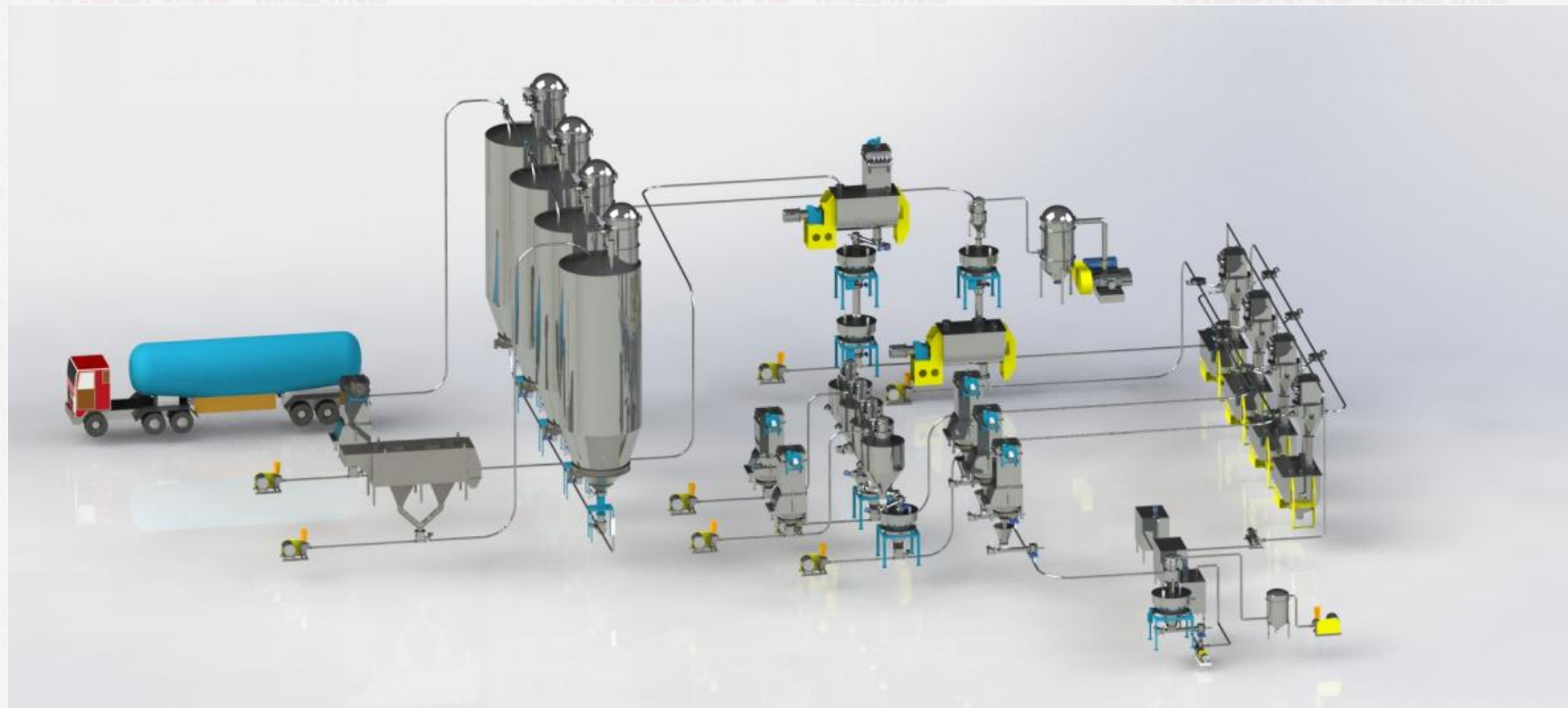
USA Project 4



食药行业物料处理系统整体解决方案

Turnkey Solution for Material Handling System of Food and Pharmaceuticals Industries

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食药领域合作TOP级客户

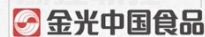
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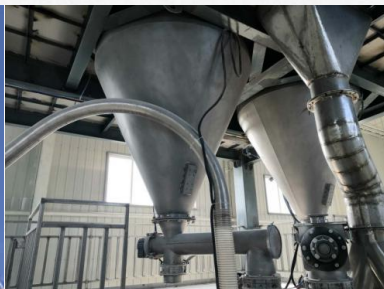
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