

Product Introduction

产品介绍

项 目ITEMS	参数/规格PARAMETERS/SPECIFICATIONS	
外形尺寸 (长×宽×高, mm) Overall dimensions (length x width x height, mm)	10300×8200×4150	10300×8200×4150
配料工位 Batching station	4~16工位	4~16 stations
配料精度 Batching accuracy	±2g (≤400g的组份) 或±0.5% (> 400g的组份)	±2g (≤400g of components) or ±0.5% (> 400g of components)
设备重量(kg) Equipment weight(kg)	6500 (kg)	6500 (kg)
最大生产率 Maximum productivity	60批次/小时	60 batches/hour
配料重量 Ingredient weight	3-18kg/批次	3-18kg/batch
物 料 Materials	粉体、粒料等	Powder, granules, etc

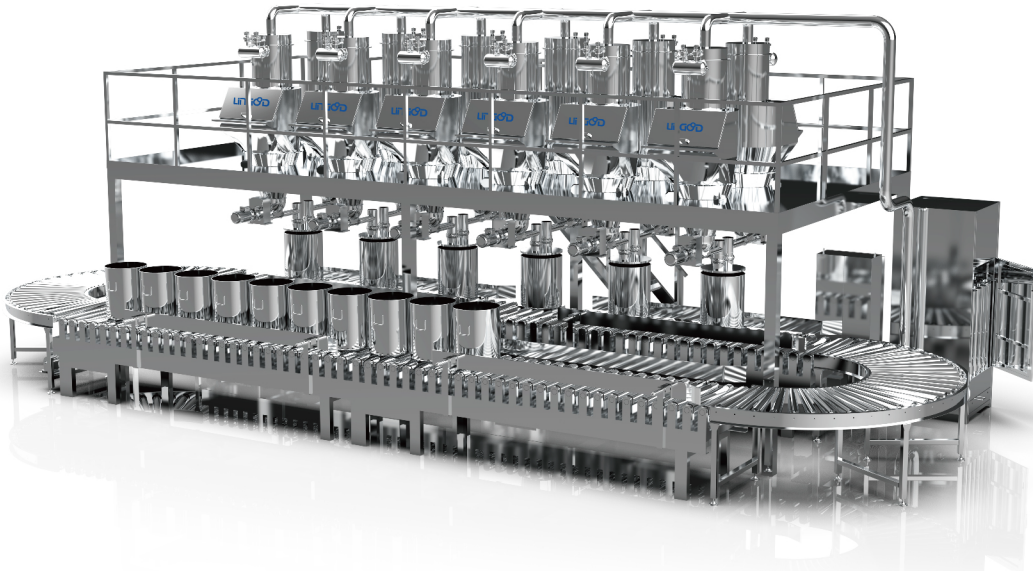
注：本文件所述内容仅用于参考，实际产品参数请咨询灵鸽科技根据具体设计方案而定

Note: The contents of this document are for reference only. For actual product parameters, please consult Lingood Technology based on the specific design plan.

EXPERT IN PRECISE
MATERIAL HANDLING SYSTEMS

物料精准处理系统专家

INTELLIGENT MICRO
BATCH DOSING SYSTEM
智能微量配料系统



实现高精度、多组份自动化
流水线配料

High-precision, multi-component automated
production line batching

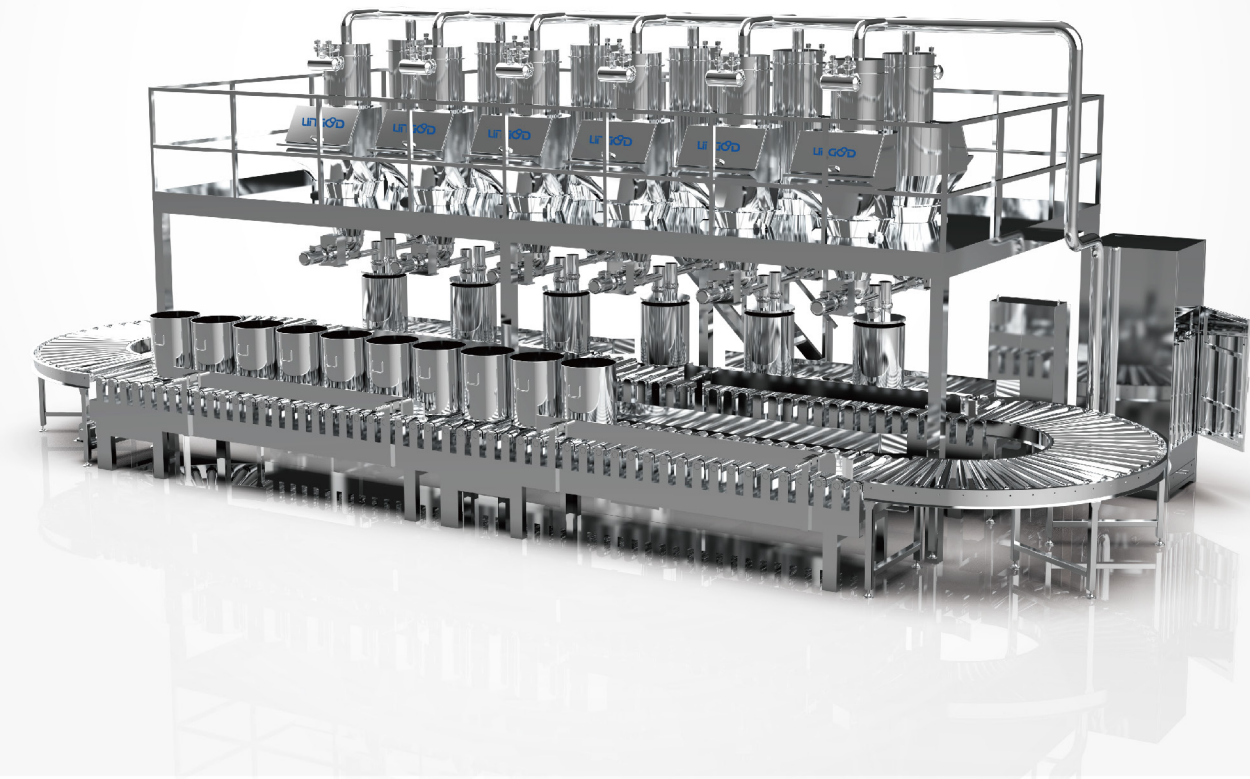
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该系统专用于多组份小料配料或预混微量组份配料，通过负压上料系统将投料站中的原料输送至储料工位。配料容器通过辊筒输送线输送、运送到出料口，原料按比例精确配送至配料容器。通过各配料单元、及总重静态复称，保证配料计重准确性，实现了高精度、多组份的自动化流水线精确配料作业。

The system is specially used for batching with multi-components small ingredients or premixed micro-components. The raw materials in the feeding station are transported to the storage station through the loss-in-weight feeding system. The batching container is transported to the discharge port through the roller conveyor, and the raw materials are accurately distributed to the batching container according to the proportions needed. The accuracy of the batching weight is guaranteed by static re-weighing of each batching unit and the total weight, realizing high-precision, multi-component automatic assembly line precise batching operation.

Technical Highlights

技术亮点

控制精度高, 配方执行误差 $\leq 0.2\%$

双级喂料机构, 保证精确喂料

全闭环智能控制系统, 抗干扰数字信号传输 (响应速度 < 0.1 秒)

High Precision Control (Formula Execution Error $\leq 0.2\%$)

Two-stage feeding mechanism ensures ultra-precise material delivery.

Full closed-loop intelligent control system with anti-interference digital signal transmission (response time $< 0.1s$).

无尘智造体系

所有机械连接机构密封良好

封闭式负压上料 + 中央除尘系统, 粉尘外溢率 $< 0.01g/m^3$

自动化清洁程序, 换料停机时间缩短 **80%**

Dust-Free Intelligent Manufacturing

Fully sealed mechanical connections with zero leakage.

Closed negative-pressure feeding + centralized dust removal system (dust emission $< 0.01g/m^3$).

Automated cleaning program reduces material changeover downtime by **80%**.

行业赋能

食药领域: 满足 FDA 21 CFR Part 11 合规性生产

改性塑料: 实现 0.2% 级精准配比, 取代人工实现全流程可追溯

食品工程: 杜绝人工干预导致的过敏原污染风险

Industry Applications

Food & Pharma: Compliant with FDA 21 CFR Part 11 standards.

Modified Plastics: Achieves 0.2% precision ratio control with full-process traceability, replacing error-prone manual operations.

Food Engineering: Eliminates allergen cross-contamination risks caused by human intervention.



柔性生产中枢

支持 MES/ERP 系统无缝对接 (OPC UA 协议)

模块化设计, 工位 4 \rightarrow 16 自由扩展, 产能提升 **300%**

Flexible Production Hub

Seamless integration with MES/ERP systems (OPC UA protocol).

Modular design supports flexible expansion from 4 to 16 workstations, boosting capacity by **300%**.

Functional Advantages

功能亮点

定位精准, 稳定可靠

采用单向推送结构保障配料容器平稳精确地进入配料工位, 减少配料过程中的重复操作, 有效提高设备运行稳定性及生产效率。

Precise & Stable Positioning

Unidirectional push mechanism ensures smooth and accurate container positioning, minimizing operational redundancy and enhancing stability.

料筒稳定, 防止侧翻

采用输送链杆结构确保料筒在定位链杆和输送辊筒间稳定过渡, 避免因抖动、侧翻导致生产中断, 确保产线连续性和稳定性。

Anti-Tip Container Design

Chain-conveyor structure guarantees stable transitions between positioning rods and rollers, eliminating jitter/tipping risks for uninterrupted production.