



DUST-FREE FEEDER - ADVANCED DUST CONTROL

无尘给料机 - 先进粉尘控制给料系统

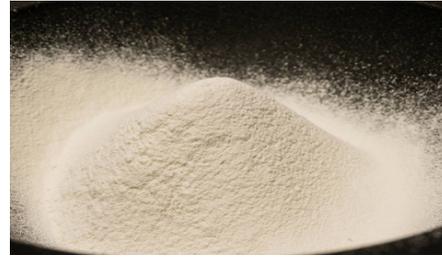
Enclosed Material Transfer / 密闭物料输送

This specialized dust-free feeding system provides enclosed, controlled transfer of powders and granular materials, eliminating dust dispersion during material handling operations.

这种专门的无尘给料系统提供粉末和颗粒材料的封闭、受控传输，消除了物料搬运操作过程中的粉尘扩散。

Engineered for industrial food production, this technology protects worker health, maintains product purity, and eliminates combustible dust hazards.

该技术专为工业食品生产而设计，可保护工人健康，保持产品纯度，并消除可燃粉尘隐患。



CORE TECHNOLOGY / 核心技术

- **Sealed Feeding Chamber:** Prevents dust escape at critical loading points.
密封给料室：防止关键装料点的粉尘逸出。
- **Controlled Material Flow:** Minimizes air entrainment and dust generation.
受控物料流：最大限度地减少空气夹带和粉尘产生。
- **Integrated Dust Containment:** Captures dust at the source before dispersion.
集成粉尘抑制：在扩散前从源头捕获并抑制粉尘。
- **Negative Pressure Operation:** Optional vacuum assist for particle collection.
负压操作：可选真空辅助将粉尘颗粒吸入收集系统。

1. DUST CONTROL / 粉尘控制

- **Prevents visible dust clouds** during bag dumping or hopper filling.
防止倒袋、料斗填充或物料卸料期间产生可见粉尘云。
- **Maintains clean air quality** in production areas.
保持生产区域的清洁空气质量。
- **Protects adjacent work zones** from cross-contamination.
保护相邻工作区域免受交叉污染。

2. HEALTH & PURITY / 健康与纯度

- **Eliminates respiratory exposure** to fine particulates and allergens.
消除细微颗粒物和过敏原对呼吸道的暴露。
- **Ensures compliance with food safety** (FSMA, HACCP).
确保符合食品安全法规 (FSMA, HACCP)。
- **Reduces housekeeping labor** and powder accumulation on utilities.
减少清洁人工，防止粉末积聚在公用设施上。

3. MATERIAL SAVINGS / 物料节约

- **Material Recovery:** Typical savings of 0.5-3% of handling volume.
物料回收：通常可节省处理量的0.5-3%。
- **Inventory Accuracy:** Matches actual usage with purchased quantities.
库存准确性：使实际物料使用量与购买量相匹配。
- **Sustainability:** Minimizes waste disposal and landfill requirements.
可持续性：减少废物处理和垃圾填埋需求。

4. SAFETY RISK REDUCTION / 安全风险降低

Explosion Prevention / 爆炸预防:

Eliminates airborne dust clouds (fuel) to prevent combustible dust explosions (Flour, Sugar, Starch). / 消除悬浮粉尘云 (燃料)，预防可燃粉尘爆炸 (面粉、糖、淀粉)。

Regulatory Compliance / 法规合规:

Meets NFPA 61/654 standards and OSHA Combustible Dust NEP requirements. / 符合 NFPA 61/654 标准及 OSHA 可燃粉尘国家重点项目 (NEP) 要求。

TECHNICAL FEATURES / 技术特性

Containment: Sealed pathways, Integrated ports, Smooth surfaces. / 密封路径、集成端口、光滑表面。

Intelligence: Automated flow, Safety interlocks, Level sensors. / 自动化流量、安全连锁、液位传感器。

Hygienic: Food-grade SS, Tool-free disassembly, GMP compliant. / 食品级不锈钢、无需工具拆卸、符合GMP。

SYSTEM CONFIGURATIONS / 系统配置

- **Bag Dump Stations with integrated collection.**
带集成收集功能的倒袋站。
- **Pneumatic Conveying filter receivers.**
气力输送过滤器接收器。
- **Enclosed Weigh Hopper Filling systems.**
密闭式称重料斗填充系统。

IDEAL APPLICATIONS / 理想应用场景



Bakery / 烘焙生产



Dairy & Milk / 奶粉乳品



Spices / 调味品香料



Nutrition / 营养品粉剂

- **Bread, Pizza, Confectionery & Snack Food Lines.**
面包、披萨、糖果及休闲食品生产线。
- **Wheat Flour, Sugar, Starch & Cocoa Handling.**
面粉、糖、淀粉及可可粉处理。

- **Pet Food & Nutritional Supplement Production.**
宠物食品与营养补充剂生产。
- **Combustible materials like Rice flour & Grain meals.**
米粉和谷物粉等易燃物料处理。

ROI ANALYSIS / 投资回报分析

Cost Savings / 成本节省:

Material recovery (0.5-3%) + 50-80% reduction in housekeeping labor. / 物料回收(0.5-3%) + 减少50-80%的清洁人工。

Efficiency / 运营效率:

Less cleaning means more production uptime; faster changeovers. / 减少清洁意味着更多的生产运行时间; 更快的换产。

Safety Benefits / 安全效益:

Avoid catastrophic facility loss and worker injury liability. / 避免灾难性的设施损失和员工工伤责任。

Compliance / 合规性:

Avoiding OSHA citations and insurance premium hikes. / 避免OSHA处罚和保险费上涨。

Note: System design customized based on specific materials, volumes, and facility layout. / 注: 系统设计根据具体物料、处理量和厂房布局进行定制。

BEIJING WINTEC MACHINERY CO., LTD.
CLEAN OPERATION • SAFE ENVIRONMENT • DUST CONTROL

GLOBAL SERVICE
Advanced Material Handling Solutions