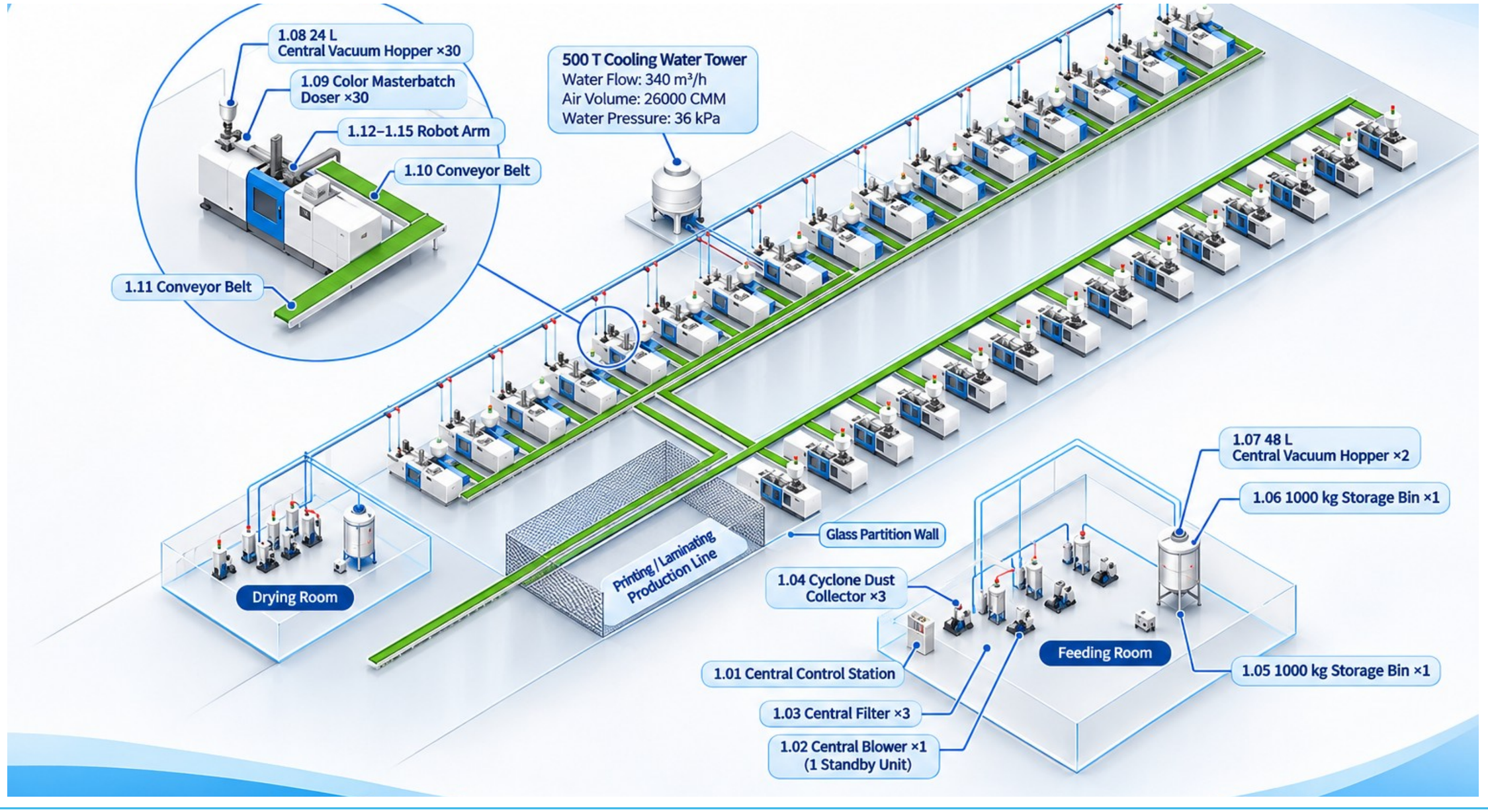


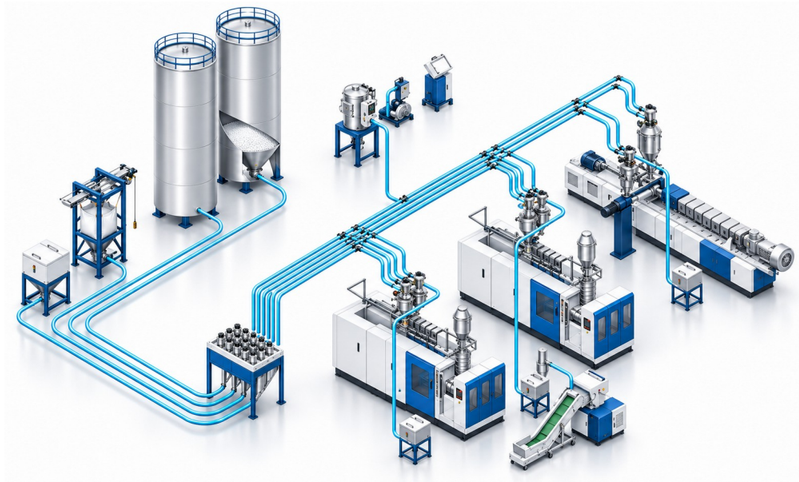
中央供料供水系列

Central Feeding & Cooling Water System



中央供料系统

CENTRAL FEEDING SYSTEM



中央供料系统设计流程

原料 → 储存 → 计量 → 干燥 → 输送 → 使用

中央供料系统采用“一机一管”的独立管路和密闭循环设计，可实现塑料原料的集中储存、计量、干燥与自动输送，确保整套系统稳定运行，有效减少原料返潮、管路残料及堵料等问题。
系统可与中央除湿干燥设备配套使用，通过稳定的低露点干燥空气对原料进行充分干燥，降低已干燥物料在输送过程中重新吸湿的风险。每个输送周期结束后，系统可对输送管路进行自动清理，减少管内残留，避免不同原料或颜色之间的交叉污染，确保进入注塑机或其他成型设备的原料保持稳定和一致。
在真空负压作用下，原料中的粉尘可通过过滤及集尘装置进行分离和收集，从而改善生产环境，提高原料洁净度，并有助于提升成品质量和生产效率。

Central Material-Feeding System Design

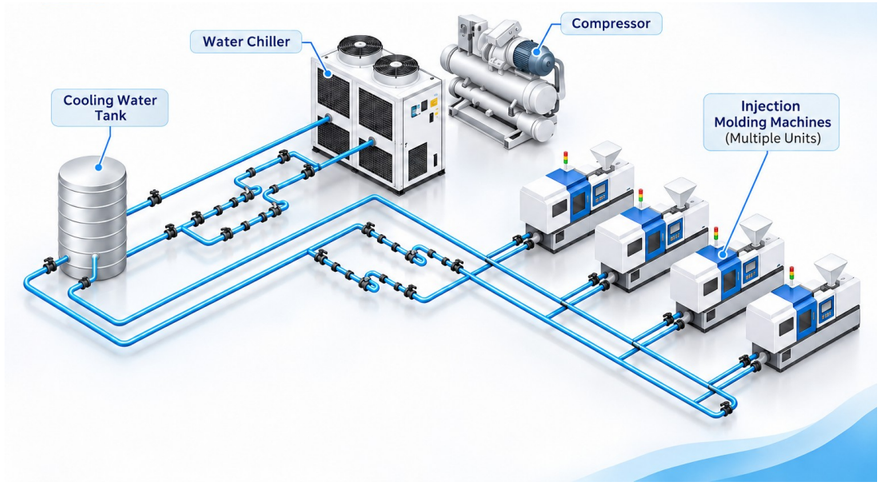
One dedicated pipeline per processing machine and a sealed conveying circuit integrate centralized storage, dosing, drying and automatic feeding. The system reduces moisture regain, residue and pipeline blockage.

A central dehumidifying dryer supplies stable, low-dew-point air. Automatic purging after each conveying cycle reduces residual material and cross-contamination between materials or colors, helping maintain consistent material quality at injection molding and other processing equipment.

Vacuum filtration and dust collection separate dust from raw materials, improving material cleanliness and the production environment while supporting product quality and production efficiency.

中央冷却水系统

CENTRAL COOLING WATER SYSTEM



中央冷却水系统说明

中央冷却水系统采用集中制冷、集中控制和集中输送的设计方式，为注塑机、吹塑机、挤出设备及其他生产设备提供稳定可靠的冷却水。系统具有智能冷却、节能运行和空间利用灵活等特点。
通过智能控制系统，可对冷却水温度、流量和压力进行精确监测与调节，充分发挥系统的制冷能力，确保各用水设备获得稳定的冷却效果。整套系统可由风冷式或水冷式冷水机、冷却水塔、循环水泵、水箱、管路及控制系统等组成。
在标准配置的基础上，我们可根据客户的生产规模、设备数量、厂房布局、环境条件及冷却要求，提供个性化的中央冷却解决方案。
变频冷水机采用变频压缩机，可根据实际负载变化自动调节运行频率和制冷量，使冷却水温度保持稳定，实现精确控温。在适当的运行条件下，与传统定频冷水机相比，变频机型可降低约 15% 的能源消耗。

Central Cooling Water System

Centralized refrigeration, control and chilled-water distribution provide stable cooling for injection molding, blow molding, extrusion and other production equipment. Intelligent controls monitor and regulate water temperature, flow and pressure.

The system may include air-cooled or water-cooled chillers, cooling towers, circulation pumps, tanks, pipelines and centralized controls. Solutions are tailored to production capacity, machine count, workshop layout, ambient conditions and cooling requirements.

An inverter-driven compressor adjusts operating frequency and cooling capacity to the actual load for stable water temperature and precise control. Under suitable operating conditions, energy consumption can be approximately 15% lower than with a conventional fixed-speed chiller.