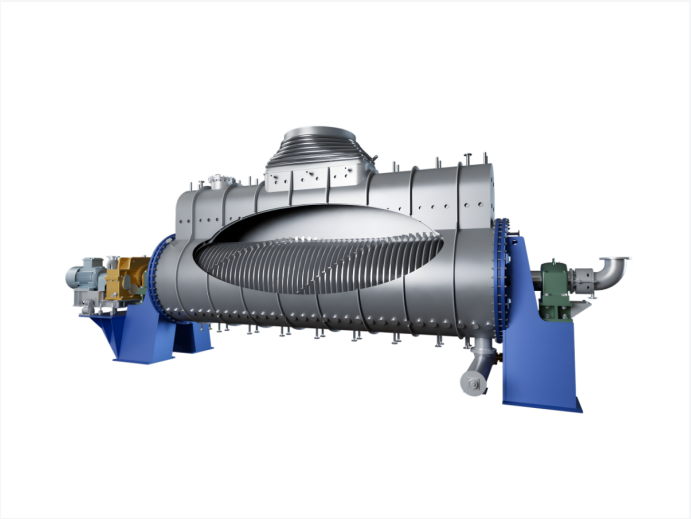
中英双语技术资料

干燥与传热系统

围绕物料、热源与气相出口，梳理干燥设备和换热系统的选型边界。



设备与讨论范围

设备体系：公开产品包括桨叶、薄膜、蒸汽管等干燥设备，以及列管和缠绕管等换热设备。

过程配套：干燥主体与热媒、冷却、冷凝、气相回收和物料输送需要一起确认。

项目选型：干燥与换热需求应从物料性质、处理目标和公用工程条件展开，不以设备名称替代工况核对。

设备图片用于说明装备形式，具体配置按项目确认。

干燥与传热系统

热工设备输入资料

将已有资料与待确认项分开，便于形成明确的技术交流清单。

核对项目	需要准备的资料
进出料条件	物料组成、处理量、进出料状态及水分或挥发组分目标。
温度窗口	提供物料允许温度、热敏性和可用加热或冷却介质。
冷热侧数据	换热项目分别列明两侧介质、流量、进出口温度、压力及允许压降。
气相与回收	确认挥发组分、气相出口、冷凝回收与后续处理的接口。
清理与检修	说明结垢、黏附、磨蚀、清理方式和可用维护空间。

下一步

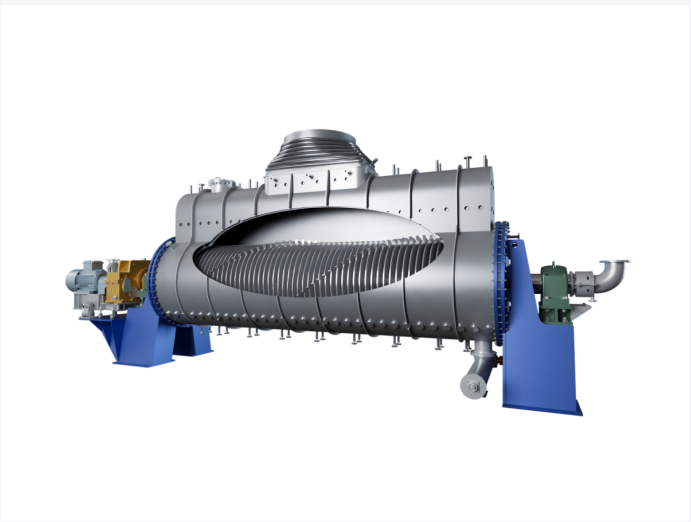
1. 将进料和目标出料放在同一物料边界内核对。
2. 同时确认热源、冷源与气相处理的供货边界。
3. 试验或项目核定后再确认设备规格和性能要求。

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Chinese and English technical guide

Drying and heat transfer systems

Review dryer and heat-exchanger selection around the material, heat source and vapour outlet.



Equipment and discussion scope

Equipment families: published products include paddle, film and steam-tube dryers, alongside shell-and-tube and spiral-wound heat exchangers.

Process integration: establish how the dryer connects to heating media, cooling, condensation, vapour recovery and material handling.

Project selection: begin with material properties, processing targets and utilities, rather than choosing from an equipment name alone.

Equipment images illustrate the range. Project documents define the actual configuration.

Drying and heat transfer systems

Thermal-equipment input data

Separate known information from open points to prepare a clear technical discussion.

Item	Information to prepare
Inlet and outlet conditions	Material composition, throughput, inlet and outlet states, and moisture or volatile-content targets.
Temperature window	Provide permissible material temperatures, thermal sensitivity and available heating or cooling media.
Hot- and cold-side data	For heat exchangers, specify each side’s medium, flow, inlet and outlet temperatures, pressure and allowable pressure drop.
Vapour and recovery	Define volatile components, the vapour outlet, condensation and downstream recovery interfaces.
Cleaning and maintenance	Describe fouling, adhesion, abrasion, cleaning methods and available maintenance space.

Next steps

1. Review feed and target discharge within one material boundary.
2. Confirm heating, cooling and vapour-handling supply boundaries together.
3. Confirm equipment specifications and performance requirements after trials or project review.

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