XSG系列闪蒸干燥机
XSG Series Spin Flash Dryer

▶ 用途（Application）

XSG系列高速旋转闪蒸干燥机广泛应用于以下领域：
阻燃剂：适用于各种防火材料的干燥处理。
分子筛：用于分子筛材料的干燥，提升产品性能。
橡胶与塑料添加剂：为橡胶和塑料行业的添加剂提供理想的干燥解决方案。
颜料与染料：能够处理高粘度的颜料和染料，保证产品质量。
精细化工：适用于精细化学品的干燥，特别是对热敏感的物料。
饲料原料及中间体：为饲料行业及相关化学中间体提供连续高效的干燥工艺。
这种设备以其多功能应用、连续干燥能力、高效能、能源效率以及灵活处理不同类型的膏状、滤饼和浆料物料的能力，在多个行业中展现了其独特价值。坚固的构造也确保了长期可靠性和最小停机时间。

XSG series high-speed rotary flash dryer is widely used in the following fields:
Flame retardant: suitable for drying various fireproof materials.
Molecular sieve: used for drying molecular sieve materials to improve product performance.
Rubber and plastic additives: provide ideal drying solutions for additives in rubber and plastic industries.
Pigments and dyes: capable of handling high viscosity pigments and dyes to ensure product quality.
Fine chemicals: suitable for drying fine chemicals, especially heat-sensitive materials.
Feed raw materials and intermediates: provide continuous and efficient drying processes for the feed industry and related chemical intermediates.
This equipment has demonstrated its unique value in multiple industries with its versatile application, continuous drying capacity, high performance, energy efficiency and the ability to flexibly handle different types of paste, filter cake and slurry materials. The rugged construction also ensures long-term reliability and minimal downtime.

▶ 特点（Features）

高效干燥机制：采用切向进气和高速搅拌器产生强大的旋转风场，确保膏状、滤饼及浆料物料的高效传热和均匀干燥。
先进的物料处理：通过切割、剪切、吹送、浮选和旋转等动作组合处理原材料，转化为颗粒形式，增强物料分离并强化热交换过程。
紧凑且用户友好的设计：结构紧凑，占地面积小，适用于多种工业环境。易于控制和维护，减少操作复杂性。
有效的物料清洁：进入干燥机底部的热空气形成强大的旋转气流，有助于清洗粘附在内表面的物料，确保连续高效的干燥效果。
保护热敏材料：高温区位于干燥机底部，避免热敏原材料直接接触加热面，降低碳化和变色的风险。
负压操作：在负压或微负压下运行，无需额外粉碎设备，并减少环境污染的可能性。
颗粒尺寸和湿度控制：配备分级环和旋转流件，上部干燥室可精确控制颗粒大小和最终湿度，满足特定湿度和粒度要求。

Efficient drying mechanism: Tangential air inlet and high-speed agitator generate a strong rotating wind field to ensure efficient heat transfer and uniform drying of paste, filter cake and slurry materials.
Advanced material handling: Raw materials are processed and converted into granular form through a combination of cutting, shearing, blowing, flotation and rotation, which enhances material separation and strengthens the heat exchange process.
Compact and user-friendly design: The compact structure and small footprint make it suitable for a variety of industrial environments. Easy to control and maintain, reducing operational complexity.
Effective material cleaning: The hot air entering the bottom of the dryer forms a strong rotating airflow, which helps to clean the materials adhering to the inner surface and ensure continuous and efficient drying effect.
Protect heat-sensitive materials: The high temperature zone is located at the bottom of the dryer to avoid direct contact between heat-sensitive raw materials and the heating surface, reducing the risk of carbonization and discoloration.
Negative pressure operation: Operating under negative pressure or micro-negative pressure, no additional crushing equipment is required, and the possibility of environmental pollution is reduced.
Particle size and humidity control: Equipped with a grading ring and a rotating flow piece, the upper drying chamber can accurately control the particle size and final humidity to meet specific humidity and particle size requirements.

▶ 技术参数（Technical Parameters）

参数ITEM / 型号TYPE		XSG-2	XSG-4	XSG-6	XSG-8	XSG-10	XSG-12	XSG-16	XSG-20
主机内径 Inner Diameter of Main Unit	mm	200	400	600	800	1000	1200	1600	2000
风量 Air Volume	m^3/h	350 -500	1150 -2000	2450 -4500	4450 -7550	7000 -12500	10000 -20000	18000 -36000	28200 -56500
蒸发水量 Evaporated Water (Kg/h)	kg/h	12-17	40-70	80-150	150-250	230-450	300-600	600-1000	1000-1500
主机功率 Main Machine Power	kw	10	20	40	65	85	105	150	230
最高高度 Upper Height Limit	m	4	4.8	5.8	6.5	7.1	7.8	8.8	10.1
占地面积 Occupied Area	m^2	15	20	28	35	40	52	80	150