

HFG系列滚筒刮板干燥机

HFG Series Drum Scraper Dryer

► 用途 (Application)

HFG旋转刮板滚筒干燥机广泛应用于以下领域：

化工行业：适用于各种化学品溶液、乳液或悬浮液的高效干燥。

食品工业：用于食品成分如蛋白质、淀粉、乳制品等的干燥处理，保证产品质量和安全性。

制药行业：特别适合热敏感药物成分的干燥，保持药物活性。

环保工程：可用于废水处理后的浓缩液干燥，减少废物体积并回收有用物质。

The HFG Rotary Scraper Roller Drying Machine is widely used in the following areas:

Chemical Industry: Suitable for the efficient drying of various chemical solutions, emulsions, or suspensions.

Food Industry: Used for drying food ingredients such as proteins, starches, dairy products, etc., ensuring product quality and safety.

Pharmaceutical Industry: Particularly suitable for drying heat-sensitive pharmaceutical ingredients while preserving their activity.

Environmental Engineering: Can be used for drying concentrated liquids after wastewater treatment, reducing waste volume and recovering valuable substances.



► 特点 (Features)

高热效率：通过直接热传导，该干燥机实现了高达80%-90%的热效率，确保几乎所有的热量都被用于蒸发滚筒壁上材料中的水分。

灵活的操作参数：可以根据物料密度、膜厚、加热介质温度和滚筒速度等可调参数进行多样化操作，以适应不同的物料和生产需求。

快速干燥周期：典型的干燥时间为10到15秒，特别适合处理热敏感材料，并且可以与真空装置集成在减压条件下运行。

快速蒸发率：在滚筒壁上形成的薄材料膜（0.3-1.5毫米）结合一致的热和质量传递方向，能够实现每小时每平方米高达70公斤水的蒸发能力。

多样的进料方式：根据物料特性和工艺需求，支持浸入、喷雾或磨碎辅助等液体物料处理方法。

集成组件：包括一个刮刀用于移除干燥产品，螺旋输送机用于收集和包装，以及可调节薄膜控制以确保均匀的物料分布。

加热选项：支持蒸汽、热水或热油作为加热介质，提供了热源选择的灵活性。

High Thermal Efficiency: Utilizing direct heat conduction, this dryer achieves thermal efficiency of up to 80%-90%, ensuring that nearly all heat energy is used for evaporating moisture from materials on the roller wall.

Flexible Operation Parameters: Adjustable parameters such as material density, film thickness, heating medium temperature, and roller speed allow for versatile operation to accommodate various materials and production requirements.

Rapid Drying Cycle: With a typical drying period of only 10 to 15 seconds, it is particularly suitable for heat-sensitive materials and can operate under reduced pressure when integrated with vacuum devices.

Quick Evaporation Rate: The thin material film (0.3-1.5 mm) formed on the cylinder wall, combined with aligned heat and mass transfer directions, enables an evaporation capacity of up to 70 kg.H2O/m².h.

Versatile Feeding Methods: Capable of processing liquid materials using methods like immersion, spray, or grinding assistance based on material properties and process needs.

Integrated Components: Includes a scraper for removing dried products, a spiral conveyor for collection and packaging, and adjustable film control for uniform material distribution.

Heating Options: Supports steam, hot water, or hot oil as heating media, offering flexibility in heat source selection.



► 技术参数 (Technical Parameters)

型号TYPE	滚筒尺寸 Roller size (Φ)	有效加热面积 Effective Heating Area (m²)	干燥能力 Drying Capacity (kg.H2O/m2.h)	蒸汽耗量 Steam Consumption (kg/h)	电机功率 Motor Power (kw)	外形尺寸 Overall Dimensions (mm)	重量 Weight (kg)
HFG-600	600*800	1.12	40-70	100-175	2.2	1700*800*1500	850
HFG-700	700*1000	1.65	60-90	150-225	3	2100*1000*1800	1210
HFG-800	800*1200	2.26	90-130	225-325	4	2500*1100*1980	1700
HFG-1000	1000*1400	3.3	130-190	325-475	5.5	2700*1300*2250	2100
HFG-1200	1200*1500	4.24	160-250	400-625	7.5	2800*1500*2450	2650
HFG-1400	1400*1600	5.28	210-310	525-775	11	3150*1700*2800	3220
HFG-1600	1600*1800	6.79	270-400	675-1000	11	3350*1900*3150	4350
HFG-1800	1800*2000	8.48	330-500	825-1250	15	3600*2050*3500	5100
HFG-1800A	1800*2500	10.6	420-630	1050-1575	18.5	4100*2050*3500	6150