



HG系列回转滚筒干燥机

HG Series Rotary Kiln Dryer



概述 Descriptions

- ◆ 湿物料从干燥机一端投入后，在内筒均布的抄板器翻动下，物料在干燥器内均匀分布与分散，并与并流（逆流）的热空气充分接触，加快了干燥传热、传质推动力。在干燥过程中，物料在带有倾斜度的抄板和热气流的作用下，可调控地运动至于干燥机另一段星形卸料阀排出成品。
- ◆ Wet material is loaded from one head of the dryer, and then it is stirred by the bafflers that is uniformly distributed in the barrel. Material is uniformly distributed and dispersed in the dryer, fully contact the hot air of parallel (or counter) flow, so the drying process is expedited, and the impulsion power of media transfer is enhanced. During the drying process, material is under the effect of angled baffler and hot air, moves to the star shape unloader that is at the other head of the dryer.

特点 Features

- ◆ 转筒干燥机械化程度高，生产能力较大
- ◆ 流体通过筒体阻力小，功能消耗低
- ◆ 对物料特性的适应性比较强
- ◆ 操作稳定，操作费用较低，产品干燥的均匀性好
- ◆ The motorization level of the barrel is high, and the production capacity is high;
- ◆ The resistance that the material passes through the barrel is less, and the power consumption is low.
- ◆ Application capability to different characters of materials is high.
- ◆ The operation is stable, the operation fee is low, and the uniformity of product drying is good.

应用 Applications

- ◆ 适用于①化工、矿山、冶金等行业大颗粒,比重大物料干燥，如：矿山、高炉矿渣、煤、金属粉末、磷肥、硫铵。②对有特殊要求的粉末,颗粒状物料的干燥,如：HP发泡剂、酒糟渣、轻质碳酸钙、活性白土、磁粉、石墨、药渣。③要求低温干燥，且需大批量连续干燥的物料。
- ◆ Applicable for drying big particles, heavy particles in chemical, mining, and metallurgy, such as mining area, cinder of blast furnace, coal, powder of metal, phosphate fertilizer and thiamine. For drying the powder or particles with special requirements, such as HP foaming blowing agent, residue of alcohol, light calcium carbonate, active clay, magnetic powder, graphite, and residue of medicine. For materials to be dried under low temperature and large lot continuous production.



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技术参数 Technical Parameters

规格(m) item	生产能力(t/h) productive capacity	筒体速度(r/min) revolution	电机功率(Kw) motor power	安装角度(°) install angle	出料湿度 Temp. of final
Φ 1.0x5.0	0.5-1.2	0.6-6	4	3~5	≤1.5%
Φ 1.2x6-10	1.5-3	0.6-6	5.5	3~5	≤1.5%
Φ 1.5x12-18	3-5.5	0.6-6	15	3~5	≤1.5%
Φ 1.8x12-18	5-6.5	0.6-6	18.5	3~5	≤1.5%
Φ 2.2x12-22	7-12	0.6-6	22	3~5	≤1.5%
Φ 2.4x15-20	9-15	0.6-6	30	3~5	≤1.5%
Φ 3.0x25	16	0.6-6	55	3~5	≤1.5%

形式model	直接加热顺流式 direct heating clock- wise flow spec	直接加热顺流式 direct heating clock- wise flow spec	直接加热逆流式 heat directly counter- current spec	直接加热逆流式 heat directly counter- current spec	复合加热 complex heat	复合加热 complex heat
物料种类 kinds of raw material	矿石 ore	HP发泡剂vesicant 466	高炉矿渣slag of blast furnace	硫酸铵 ammonium sulfate	磷肥phosphorus fertilizer	煤 coal
处理量amount to be treated (Kg/h)	1000	13	15000	20000	12000	5000
初含水量primary moisture(%)	30	0.3	6	1.5	5	6.5
终含水量final moisture(%)	15	0.05	1	0.1	0.1	0.1
平均粒径average diameter(mm)	6.5	800	4.7	0.5-1.7	0.5	5
物料堆积重度bulk density of rawmaterial (kg/m ²)	770	5400	1890	1100	1500	750
热风风量amount of hot air kg/h	39000	165	10750	9800	6500	16000
入口气体温度temperature of air at inlet(°C)	600	42	500	180	650	570
物料出口温度temperature of raw material at outlet(°C)			100	70	80	75
加热方式 way of heating	煤气 gas	蒸气或电加热 electric heating	重油 heavy oil	燃煤热风炉coal fuel hot furnace	重油 heavy oil	重油 heavy oil
装料系数loading efficiency(%)		6.3	7	7.5	7.8	18
转速revolution(rpm)	4	4	3.5	3	4	2
倾斜度gradient(m/m)	0.04	0.005	0.03	0.05	0.05	0.043
抄板数目 quantity of stirring-up rake	12	24	12	22	内筒外面8外筒内面16 outer of inner cylinder8 inner of out cylinder16	6 12
干燥器直径 diameter of dryer(m)	2.0	1.5	2	2.3	外筒2.4内筒0.84 out cylinder2.4 inner cylinder0.84	外筒2.4内筒0.95 out cylinder2.4 inner cylinder0.95
干燥器长度length of dryer(m)	20	12	17	15	10	16
驱动功率driving power(kw)	22	7.5	15	11	11	15