

CHANGZHOU XINGGAN DRYING EQUIPMENT CO.,LTD

Tel: +86-519-88900188 Mobile: +8618661216636

Wechat: zlx635771893 E-mail: franklxz@xggz.com

Web: <https://www.stardrying.com/>

KJG Series Hollow Blade Dryer



Description

KJG Hollow Blade Dryer can indirectly heat or cool the materials in paste, granules, powders and slurries. It can also complete the unit process of drying, cooling, heating, sterilization, reaction and low temperature combustion. The special heat-transfer stirring blade wedge type in the equipment has high heat-transfer efficiency and its heat-transfer surface has self-cleaning function.

Application

Blade dryer has been successfully applied in the fields of food, chemical, petrochemical, dyes, industrial sludge and so on. For example: calcium sulfate dihydrate ($\text{Ca}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$) is combusted into calcium sulfate hemihydrate ($\text{Ca}_2\text{SO}_4 \cdot 1/2\text{H}_2\text{O}$); Sodium bicarbonate (NaHCO_3) is calcined into sodium carbonate (Na_2CO_3). It has been successfully used in the industries of fertilizer and modified starch. Blade dryer can be used for sterilization of food and flour. With large heating area in unit effective volume, the materials will soon be heated to the sterilization temperature, avoiding that long heating may change the quality of materials.

Features

- 1、 System of blade dryer is low cost;
- 2、 It can handle wide ranges of materials; Using different heat medium, it can not only deal with heat-sensitive materials, but also materials requiring high temperature treatment. Common media are: steam, heat transfer oil, hot water and cooling water.
- 3、 It supports both continuous operation and intermittent operation; it can be applied in many fields;
- 4、 Environmental friendly;
- 5、 Low operating costs: little abrasion, low maintenance cost.
- 6、 Stable operation: due to the special compression - expansion stirring of wedge-shaped blade, material particles have sufficient contact with the heat transfer surface. In the axial zone, materials have low temperature, low humidity and small mixing gradient so as to ensure the stability of the process.

Working Principle

KJG Hollow Blade Dryer is a kind of low-speed stirring dryer which has a stirring blade set inside the machine, making the wet materials have a full contact with heat carrier and hot surfaces under the stirring of the blade, to achieve the purpose of drying. Its structure is generally horizontal, dual-axis or four-axis. This dryer is divided into hot air type and conduction type.

TECHNICAL PARAMETERS

Item\Model	KJG-3	KJG-9	KJG-13	KJG-18	KJG-29	KJG-41	KJG-52	KJG-68	KJG-81	KJG-95	KJG-110
Heat Transferring Area (m ²)	3	9	13	18	29	41	52	68	81	95	110
Effective Volume (m ³)	0.06	0.32	0.59	1.09	1.85	2.8	3.96	5.21	6.43	8.07	9.46
Speed Range(rmp)	15-30	10-25	10-25	10-20	10-20	10-20	10-20	10-20	5-15	5-15	5-10
Power (kw)	2.2	4	5.5	7.5	11	15	30	45	55	75	95
Inner Width ID(mm)	306	584	762	940	1118	1296	1476	1652	1828	2032	2210
Outer Width OD(mm)	736	841	1066	1320	1474	1676	1854	2134	1186	2438	2668
Body Length (mm)	1956	2820	3048	3328	4114	4724	5258	5842	6020	6124	6122
Total Length (mm)	2972	4876	5486	5918	6808	7570	8306	9296	9678	9704	9880
Distance of feeding and discharge(mm)	1752	2540	2768	3048	3810	4420	4954	5384	5562	5664	5664
Height of Center (mm)	380	380	534	610	762	915	1066	1220	1220	1220	1220
Hotal Height (mm)	762	838	1092	1270	1524	1778	2032	2362	2464	2566	2668
Heat Inlet (inch)	3/4	3/4	1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	2
Heat Outlet (inch)	3/4	3/4	1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	2

More Photos



