

CHANGZHOU XINGGAN DRYING EQUIPMENT CO.,LTD

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## XSG Series Spin Flash Dryer



## Description

The hot air enters into the bottom of the dryer in tangent direction. Under the driving of the stirrer, a powerful rotating wind field is formed. Paste materials go into the dryer via screw feeder, and dispersed by impact, friction and shearing force under the powerful high-speed rotating impeller; bulk materials immediately get smashed, in fully contact with hot air in order to get heated and dried. Then the dehydrated materials rise with hot air. A hierarchical ring will make large particles retentate, while exhaust small particles out of dryer from center of the ring, recovered by cyclone separator and deduster. The bulk materials or materials without being fully dryer will be thrown to the wall under centrifugal force and drop to the bottom again to be smashed and dried.

## Application

- 1、 Organic compounds: atrazine (pesticides), cadmium laurate, benzoic acid, germicide, sodium oxalate, cellulose acetate, the organic pigments, and so on;
- 2、 Dye: santhraquinone, black iron oxide, indigo pigments, butyric acid, titanium hydroxide, zinc sulfide, various azo intermediate;
- 3、 Inorganic: borax, calcium carbonate, hydroxide, copper sulfate, ferric oxide, barium carbonate, antimony trioxide, all kinds of metallic hydroxide, all kinds of heavy metal, salt, synthetic cryolite and so on;
- 4、 Food: soy protein, gelatinized starch, distillers' grains, triticin, wheat starch and so on.

# Features

- 1、 Dynamic integration of cyclone, fluidized, spouted and grinding classification technologies.
- 2、 Equipments are compact and small-sized, enabling high efficiency and continuous production, achieving "small equipment, large-scale production".
- 3、 Great drying intensity, low energy consumption, high thermal efficiency.
- 4、 Short material residence time, good product quality, available for drying heat sensitive materials.
- 5、 Negative or slightly negative pressure operation, good impermeability, high efficiency, eliminating environmental pollution.

## TECHENICAL PARAMETERS

XSG Item/Model	XSG-2	XSG-4	XSG-6	XSG-8	XSG-10	XSG-12	XSG-14	XSG-20
Tower Diameter (mm)	200	400	600	800	1000	1200	1400	2000
Air amount (m <sup>3</sup> /h)	300-500	1150-2000	2450-4500	4450-7550	7000-12500	10000-20000	18000-36000	28200-56500
Water Evaporation (kg/h)	12-17	40-70	80-150	150-250	230-425	300-600	600-1000	1000-1500
Total Power (kW)	10	20	40	65	85	105	150	230
Max. Equipment Height (m)	4.0	4.8	5.8	6.5	7.1	7.8	8.8	10.1
Occupied Area(m <sup>2</sup> )	15	20	28	35	40	52	80	150

Raw Material Example & Characteristics (based on Model XZG-6)

Item/Raw Material	Stearate Acid	Aluminum hydroxide	Zinc Carbonate	Monosultap	TMTD	DSD Acid	Red Iron Oxide	Antimony Dioxide	Cuprous Chloride	White Carbon Black
Inlet Air Temperature(°C)	150	150	150	120	140	150	200	180	200	280
Primary Moisture(%)	80	55	8	30	65	60	60	45	30	85
Final Moisture(%)	0.5	1.5	1.0	1.0	0.5	0.5	0.5	1.0	3.0	5.0
Practical Drying Capacity(kg/h)	140-160	250-280	130-170	80-110	80-120	80-120	300-350	280-320	290-310	250-300

Item/Raw Material	ZDC accelerate	Oil Soluble Ink	Substitute Zinc Manganate	Phthalocyanin Dye	Calcium Citrate	Superfine Calcium Carbonate	Slurry Treatment Agent	Sodium Isocyanurate Dioxide	Sodium Isoxyanurate Trioxide
Inlet Air Temperature(°C)	150	150	120	150	140	160	200	180	150
Primary Moisture(%)	60	45	30	55	40	70	75	25	30
Final Moisture(%)	0.5	2.0	1.0	1.0	1.0	1.5	5.0	0.2-2	1.0
Practical Drying Capacity(kg/h)	80-110	350-380	120-150	160-180	300-350	430-470	290-310	80-120	90-150

# More Photos

