

## Single Layer Belt Dryer LD1602

LD1602 single layer belt dryer is a through-flow continuous drying equipment for dehydrated vegetables, pellets, monosodium glutamate, coconut, organic pigments, synthetic rubber, acrylic fibers, pharmaceuticals, medicinal materials, small wood products, plastic products, electronic components aging , curing, etc. It is especially suitable for materials that have high water content and low temperature. The dryers of the series have the advantages of fast drying speed, high evaporation strength and good product quality. The dehydrated cake-like paste material can be dried after being granulated or formed into a rod shape.



Pellet feed / coconut / organic pigment / acrylic fiber

### Features of LD1602 single layer belt dryer:

- 1.LD1602 single-layer belt dryer can effectively dry the material and dry it through multiple drying chambers and circulating air in the drying chamber, which can effectively avoid energy waste and reduce energy consumption.The structure of the wind deflector and the windshield in the air duct effectively reduces the exhaust gas dust, reduces the pollution of the exhaust gas to the environment, it is environmentally friendly and reliable.
- 2.LD1602 single layer belt dryer can adjust the air volume, heating temperature, material residence time and feeding speed to achieve the desired drying effect.
3. LD1602 single layer belt dryer is flexible in configuration, can use the belt belt washing system and material cooling system.

4. Most of the air is recycled, which saves energy.

5. LD1602 single layer belt dryer has a unique air distribution device to make the hot air distribution more uniform and ensure the consistency of product quality.

6. The heat source can be matched with steam, heat transfer oil, electricity or coal-fired (oil) hot blast stove.

**The structural composition and characteristics of the LD1602 single-layer belt dryer:**

The LD1602 single-layer belt dryer consists of a body, a feed port, a feed pump, a transfer wheel, a conveyor belt, a steam pipe, a blower, a heater, a geared motor, a storage bin and an induced draft fan.

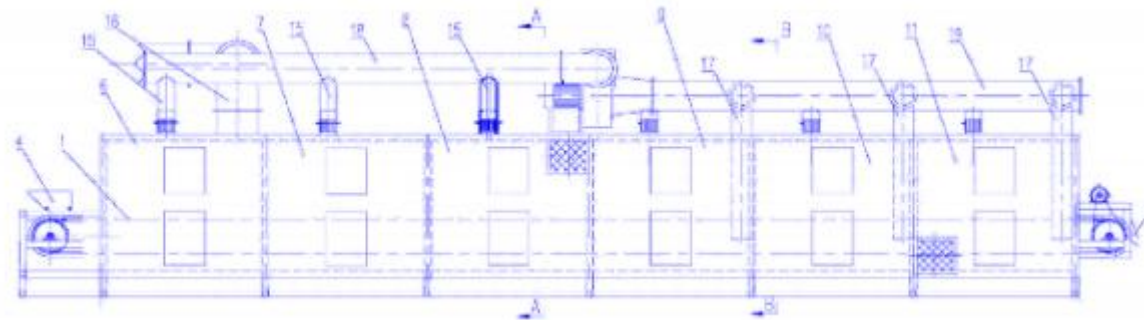
Features: The feeding port is connected to the feeding pup, the feeding pump is located on the right side of the body, the conveying wheel is located on both sides of the body, the conveyor belt is connected to the conveying wheel, and the geared motor is connected to the left conveying wheel through the conveyor belt,the storage bin is located on the left side of the machine, the blower is connected to the heater, the heater is connected below the body, the steam pipe is connected above the body and the steam pipe is connected to the induced draft fan.

**Technical parameters of LD1602 single layer belt dryer:**

Model	LD1602-1	LD1602-2	LD1602-3	LD1602-4	LD1602-5	LD1602-6	LD1602-7
Number of units	4	5	4	5	4	5	10
Bandwidth (m)	1.2		1.6		2		
Dry section length (m)	8	10	8	10	8	10	20
Paving thickness (mm)	10-80						
Operating temperature (oC)	50-140						
Steam pressure (Mpa)	0.2-0.8						

Steam consumption (kg water/h)	120-300	150-375	150-400	180-500	180-500	225-600	450-1200
Drying time (h)	0.2-1.2	1.25-1.5	0.2-1.2	0.25-1.5	0.2-1.2	0.25-1.5	0.5-3
Drying strength kg /h	60-160	80-200	85-220	100-260	100-260	120-300	240-600
Total equipment powe (kw)	11.4	13.6	14.6	18.7	19.7	24.5	51
length (m)	9.56	11.56	9.56	11.56	9.56	11.56	21.56
Size	Width (m)	1.49	1.49	1.9	1.9	2.32	2.32
	High (m)	2.3	2.3	2.4	2.4	2.5	2.5
Total weight kg	4500	5600	5300	6400	6200	7500	14000

**Configuration of LD1602 single layer belt dryer:**



**Structure sketch of LD1602 single layer belt dryer**

1 is the conveyor belt, 2 is the first row of wet fans, 3 is the second row of wet fans, 4 is the feeding tube, 5 is the discharging tube, 6 is the first drying chamber, 7 is the second drying chamber, 8 is the first Three drying chambers, 9 is the fourth drying chamber, 1 is the fifth drying chamber, 11 is the sixth drying chamber, 12 is the circulating fan, 13 is the partition, 14 is the heat exchanger, 15 is the inlet duct, 16 is Air intake pipe, 17 is the exhaust pipe, 18 is the

first main pipe, 19 is the second main pipe, 20 is the wind deflector, 21 is the windshield ring, 22 is the air guiding pipe, 23 is the connecting ring, 24 is the dust storage cavity , 25 is the wind passage

**The working principle of LD1602 single layer belt dryer:**

The material is evenly laid on the mesh belt by the feeder. The mesh belt is generally made of 12-60 mesh stainless steel wire mesh, which is moved by the transmission device and moved in the dryer. The dryer consists of several units and each unit is independently circulated by hot air. Part of the exhaust gas is discharged by a special exhaust fan. The exhaust gas is controlled by a regulating valve. The hot air is heated from bottom to top or from top to bottom through the covered belt. The process of mass transfer takes away the moisture of the material. The mesh belt moves slowly, the running speed can be adjusted freely according to the material temperature and the dried product continuously falls into the receiver. The upper and lower circulation units can be flexibly equipped according to user needs, and the number of units can also be selected according to needs.

**Our service:**

- 1.Our single layer belt dryer and insect microwave dryer have a one-year warranty. The machines are free of labor for maintenance.
- 2.Free installation and commissioning equipment, standardized training for users.
- 3.We have professional and technical personnel to form an after-sales service team, open after-sales service line and 24-hour online service platform and conduct regular return visits to users.

Leader Microwave Equipment Company has advanced production equipment, professional manufacturing level and comprehensive technical management team. In addition, our equipment is exported to many countries and regions in Africa and the Americas. We have rich domestic and foreign trade experience.We are a reliable equipment manufacturer, please call.