

**XDT系列滚筒刮板干燥机****XDT Series Rolling Scratch Drum Dryer****特 点 Features**

- 1、热效率高。因滚筒干燥机传热机理属热传导，传热方向在整个操作周期中保持一致，除盖散热和热辐射损失外，其余热量全都用于筒料膜湿分的蒸发上，热效率可达80%-90%。
 - 2、操作弹性大，适用性广。可调整滚筒干燥机的诸多干燥因素。如进料的浓度、涂料料膜的厚度、加热介质的温度、滚筒的转动速度等，都可以改变滚筒干燥机的干燥效率，且诸多因素互无牵连。这给滚筒干燥操作带来很大方便，使之能适应多种物料的干燥和不同产量的要求。
 - 3、干燥时间短。物料的干燥周期一般只有10-15秒，在适合于热敏性物料。若将滚筒干燥机设置在真空器中，则可在减压条件下运行。
 - 4、干燥速率大。由于涂抹于筒壁的料膜很薄，一般在0.3-1.5mm，且传热、传质方向一致，料膜表面可保持30-70kg·H₂O/m²·h的蒸发强。
- 1.High thermal efficiency. The principle of heat transfer of the cylinder dryer is heat conduction whose conducting direction keeps identical whole operation circle. Except heat dissipation of end cover and radiation loss, all heat can be used for evaporation of wet materials on the wall the cylinder. Thermal deficiency can reach 80-90%.
- 2.Large operation elasticity and wide application. Various drying factors of the cylinder dryer can be adjusted, such as density of feeding aerals/thickness of materials film, temperature of heating medium, rotating speed of the cylinder etc. which can change drying speed of the under dryer. As these factors have no interrelations each other, it brings about great convenience to dry operation. and makes it applicable to ing of various materials and to meet different requirement of production.
- 3.Short drying period. The drying period of materials is normally 10 to 15 seconds, so it is suitable for heat-sensitive materials. It can be also rated under less pressure condition if it is put in vacuum.
- 4.Fast drying rate. As film of materials coated on the wall of the cylinder is very thin. Normally, thickness is 0.3 to 1.5 mm, plus directions heat and mass transmitting are identical, the evaporation strength on the surface of the film can keep at 30-70 kg.H₂O/m²·h.

原 理 Principle

- ◆ 滚筒干燥机是一种内加热传导型转动连续干燥设备。旋转的滚筒通过其下部料槽，粘附着一定厚度的料膜，热量通过管道输送至滚筒内壁，传导到滚筒外壁，再传导给料膜，使料膜中的水份得到蒸发、脱湿，使含湿分的物料得到干燥。干燥好的物料被装置在滚筒表面的刮刀铲离滚筒，到置于刮刀下方的螺旋输送器，通过螺旋输送器再将干物料集中、包装。
- ◆ Cylinder dryer is a kind of rotating continuous drying equipment with internal heating conducting-style. Certain thickness of materials film theres to the lower trough of materials under the rotating cylinder. Heat is transferred to the internal wall of the cylinder through pipes and misfired again to the external wall and to materials film, to evaporate and damnify moisture in materials film so as to dry materials. Dried hterials are then scraped out by the blade fitted on the surface of the cylinder, fall down to the spiral conveyor under the blade, and are conveyed, lected and packed.



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结构形式 STRUCTURE

- ◆ 可分为二种形式：单筒、双筒干燥机，另外也可按操作压力分常压和减压两种形式。
- ◆ From its feature, it can be divided into single and double cylinder. Otherwise, from its operate press, it can be divided into ordinary press and minus press Dryer.

应用 Applications

- ◆ 适用于化工、染料、制药、食品、冶金等行业液体或较粘稠物料的干燥。
- ◆ It is suitable for drying liquid raw materials or thick liquid in chemical industry, dyestuff industry, pharmaceutical industry, foodstuff industry, metallurgy industry and so on.

技术参数 Technical Parameters

规格 Model size	滚筒尺寸mm Sizes of Cylinder DiameterxLength	有效加热面积m ² Effective Heating Area	干燥能力 Kg.H ₂ O/m ² .h Drying capacity	蒸汽耗量Kg/h Steam Consumption	电机功率kw Power of Motor	外形尺寸mm Sizes LxWxH	重量kg Weight
XDT-600	Φ600x800	1.12	40-70	100-175	1.1	1700x800x1500	850
XDT-700	Φ700x1000	1.65	60-90	150-225	2.05	2100x1000x1800	1210
XDT-800	Φ800x1200	2.26	90-130	225-325	3.75	2500x1100x1980	1700
XDT-1000	Φ1000x1400	3.30	130-190	325-475	4.75	2700x1300x2250	2100
XDT-1200	Φ1200x1500	4.24	160-250	400-625	4.75	2800x1500x2450	2650
XDT-1400	Φ1400x1600	5.28	210-310	525-775	6.25	3150x1700x2800	3220
XDT-1600	Φ1600x1800	6.79	270-400	675-1000	6.25	3350x1900x3150	4350
XDT-1800	Φ1800x2000	8.48	330-500	825-1250	8.6	3600x2050x3500	5100
XDT-1800A	Φ1800x2500	10.60	420-630	1050-1575	8.6	4100x2050x3500	6150

代号意义：X-代表下部浸液(料)DT-单滚筒；如客户需要，可为客房设计制造上部进料双滚筒干燥机。

Meanings Model means: X stands for lower liquid (materials) immersed DT stands for single cylinder. We can also design double-cylinder with upper with upper materials feeding depending on request of customer

