

EFFICIENT SPRAY DRYING

TEC SQUARE SPRAY DRYING TECHNOLOGY

TEC Square designs its own spray dryers together with a partner in the industry. TEC Square has specific knowledge in spray drying operation for high-end applications.

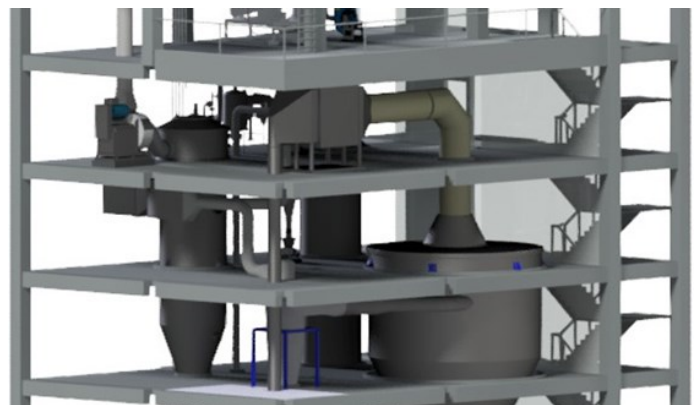
We provide integrated solutions for:

- ◆ High TS spray drying
- ◆ Efficient cleaning procedures
- ◆ Integrated agglomeration operation
- ◆ Maximum energy recuperation

TEC Square engineers come from an operational background. Our key-engineers have all spend several years in a production environment. As such we understand the difficulties of operational effectiveness. Our designs aim to incorporate the maximum of operational convenience possible.

SPRAY DRYING CONFIGURATION

We plan the layout of our spray drying towers in a very efficiently way. We feel that a well engineered project should take a minimum in building costs



Our agglomeration design incorporated into a spray dryer

SPECIFICATIONS AND ADVANTAGES

	TEC Square Flexible Extraction Technology	Advantages
Spray Drying Technologies	TEC Square can use all kinds of spray drying designs <ul style="list-style-type: none"> ◆ Tall-from dryers ◆ Fluid-bed dryers ◆ Intermediate high efficiency dryers 	TEC Square uses the best technology for the business. We adapt this technology to specific customer requests and provide operational convenience as part of our offering.
Agglomeration technologies	IF agglomeration is required we have two options: <ul style="list-style-type: none"> ◆ Integrated Fluid-bed agglomeration ◆ External steam-agglomeration tower 	Steam agglomeration gives a much better and harder particle in agglomeration. An integrated fluid-bed provides a simple small size soft agglomerate.
Energy efficiency	TEC Square provides the highest energy efficiency for a spray drying operation. We are able to spray and pulverize liquids at higher viscosities as any other spray drying operation.	Spraying at high viscosity (thus a high TS) provides several advantages <ul style="list-style-type: none"> ◆ Higher loading, higher capacity per tower ◆ Higher product quality. Per kg of product we evaporate less water ◆ Lower energy per kg of spray dried product
Cleaning and avoidance of cleaning	Depending on the operation, TEC Square can provide solutions for efficient cleaning or avoidance thereof. <ul style="list-style-type: none"> ◆ We provide solutions for recuperation of solids ◆ We provide solutions for preventing a spray drying tower from getting dirty. Please ask our team for details	Efficient cleaning has several advantages <ul style="list-style-type: none"> ◆ Any product that would be lost during cleaning could be recuperated. ◆ Avoiding cleaning by clever procedures increases the total output per year

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