



## Spray Drying Process Plant Design & Engineering



European SprayDry Technologies LLP is a UK Company based in Harlow Essex designing process plant for the production of powders worldwide. Our process plant design team are highly knowledgeable with over 100 years of combined experience between them providing exceptional process technology to our customers.

European SprayDry Technologies are the leading UK manufactures of Spray dryers in the United Kingdom offering a massive selection of options to suiting products and industries across the spectrum. The Company are leading specialists in the field of Tall form Spray Dryer design.

Complementing our spray drying operations is a wide range of process plant and equipment providing customer options for purchasing a single standalone machine to a complete turnkey operation.

Process equipment is robust with high quality build and designed for compliancy with both regional and the industrial standards required by the customer. Close interfacing with customers uniquely allow European SprayDry Technologies to adjust designs to bespoke qualities meeting standards stipulated by individual industrial entities, often leading to lasting partnership between ourselves and clients.

High Performance  
Hassel Free Operation  
Longevity

...Built into Every Plant



## Process Plant & Equipment

European SprayDry Technologies has developed a comprehensive, constantly expanding range of process plant for the complete manufacture of powders.

### Spray Dryers:

Our Spray Dryer range falls into five categories from Lab, Development, Small, Medium and Large production plant. The machines are designed for long life, machines installed from 1972 are still in production today, designed from thick gauge plate giving maximum retention should an explosion occur.

Our high performance spray drying systems utilise nozzle atomisation as standard, rotary atomisers are accommodated if required.

A fully flexible design team gives customers the choice of Standard models or a bespoke adaptation accommodating buildings, space restrictions and process considerations.

Spray Dryers as standard conform to very high specifications compliant with all European and US regulations but can be designed for compliance with industry specific standards, ATEX or your own additional standards, our design team working closely with the customers representatives ensuring we meet the exact criteria of their needs and expectations.

### Fluid Beds:

Fluid beds designed and manufactured by European SprayDry Technologies offers client's a completely flexible process, our fluid beds can be adapted to perform a variety of functions including Drying, Roasting, Calcining, Classifying, Agglomerating or Coating, Cooling or Chilling and all within a single unit if desired.

Our Fluid Beds operate throughout the world and across the full spectrum of industry producing thousands of products.

Fluid beds are designed and produced in Continuous, Continuous – Static or Batch Static variants.

All Fluid beds are designed to operate in the harshest of environments being robust and reliable, designed to meet the specific needs of both customer and industry. Fluid Beds are manufactured in a range of materials and extensive range of specifications meeting the demands of both small and large producers.



### Evaporators:

Evaporators are often integrated into the Spray Dryer operation to produce a more economic feed solution but of course can be used for specific standalone processes.

European Spray Dryers supply falling film evaporators which come in two variants, MVR and TVR, the type most suited to your operation will depend on a number of factors including both running and utility costs.

Manufactured from Stainless Steel and produced to meet requirements as diverse as that expected from either the Dairy or Chemical industries.



### Auxiliary Equipment:

In addition to our Spray Dryers, Fluid Beds and Evaporators is an extensive range of complementary plant and equipment that includes:

- Spray Chillers, for use in the production of Fats, waxes or similar products.
- Flue Dryer, Spray dryer scrubber for the removal of SO<sub>2</sub>
- Tower Agglomerator, for products requiring a large hard agglomerate such as coffee.
- Cyclones / Bag filters, European SprayDry Technologies produce some of the highest efficiency cyclones available in a variety of materials. Higher efficiency bag filters also available.
- Fluid Systems, tanks, pumps and pipework for feed systems.
- Powder Handling, silos, pneumatic conveying lines, sieves, weighing plant.
- Electronics and control systems, instrumentation, PLC control systems, hard wire panels.
- Powder Scrubber Systems, air stream cooling.

Spare Parts: A full range of spare parts available for spray dryers and fluid beds including atomiser, flexible joints, perforated plate, powder dislodging hammers, vibrator motors.





## Always Customer Focused

### Our Commitment

European SprayDry Technologies is committed to designing and supplying, high performing, safe, simple to use quality equipment which undergoes constant review and development.

Plants are designed to be upgradeable allowing many manufacturers to take advantage of advancing technology.

Customer satisfaction is paramount to the Companies ethos, working closely with Clients regardless of size to produce plants that meets their exact needs for production. A high number of clients return with repeat orders for their drying needs.

### The Complete Solution

A complete and personal service is offered from sales, project management, personnel training and commissioning. By listening to client's needs we are able to tailor solutions delivering solution producing end products suitable to differing budgets, safety considerations and practicality.



**Down Time Costs Money**  
Aftercare and backup is important to everybody, it costs money, our engineers select where possible components readily available in the Country of installation. Emergency help is only a phone call away whatever your location.



A Partnership of highly skilled blend of Engineers & Managers



Dedicated highly skilled & enthusiastic workforce.



UK Headquarters in Harlow, United Kingdom. Harlow is home to administration, test facilities and laboratories.

**EUROPEAN**  
SPRAYDRY TECHNOLOGIES



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