

**caissa**  
metal solutions

# Spray dryers

**CAISA**'s engineering department has extensive experience in the world of atomization {since 1985}, both in the design and manufacture of dryers. Subsequently, **CAISA**, since 2015, has diversified its operations towards spray drying.

For this purpose, we started up a pilot plant, which has been modified according to our experience in the sector, in order to make optimizations in the drying processes and the development of new drying products.

Given the positive results of both the entire engineering team and the commercial department, **CAISA** has signed a commercial agreement with CMT atomizers which allows it to consolidate this venture for the best atomizer equipment and a vast solvency in the market.

Below are the most important spray dryer projects in which **CAISA** has participated:





# Spray dryer

## Chemical sector

➤ Spray dryer for the pharmaceutical sector. Atomizer. Water evaporation 250kg/h.

➤ Spray dryer with fluid. Atomizer. Water evaporation 100kg/h.

➤ Change of the production system for chemical products. Atomizer. Water evaporation 800kg/h.



SPRAY DRYER - ALCOVER QUÍMICA SL

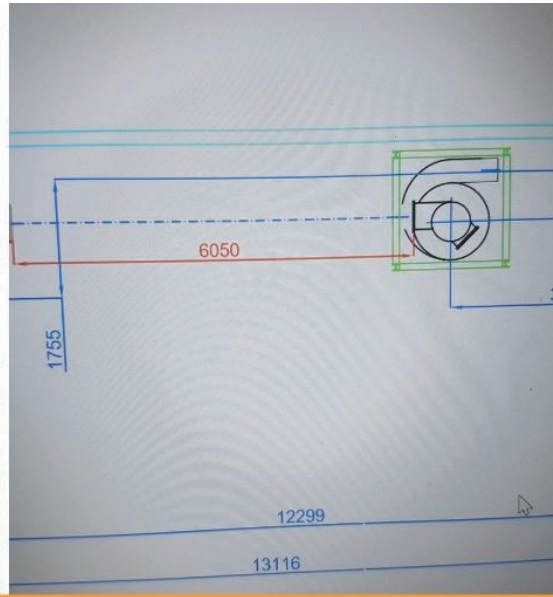




# Spray dryer

## Food industry

- Spray dryer for food industry. Atomizer.
- Water evaporation 200kg/h.



## SPRAY DRYER - HARINAS DE ANDALUCIA





# Spray dryer

## Food industry

- Spray dryer for food industry. Nozzles.
- Water evaporation 800kg/h.



## SPRAY DRYER - LASENOR EMUL SL





# Spray dryer

## Food industry

- Spray dryer for the food industry. Atomizer. Water evaporation 600kg/h.
- Change of the production system for whole milk. Atomizer. Water evaporation 600kg/h.



SPRAY DRYER - QUESERÍA IBÉRICA





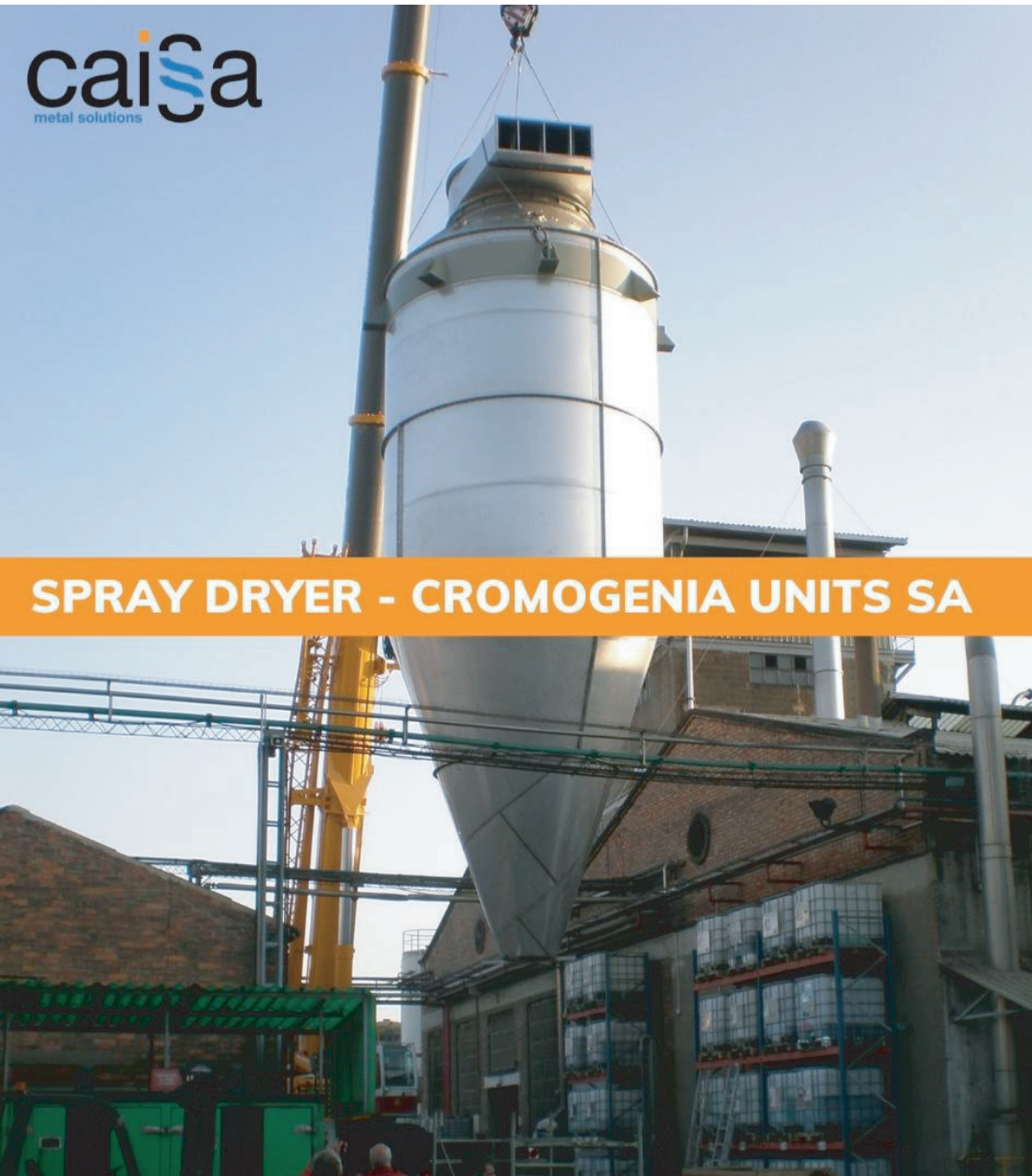
# Spray dryer

## Chemical industry

➤ Spray dryer, Nubiolsa Technology for the chemical sector (1985). Nozzles. Water evaporation: 800 kg/h.

➤ Spray dryer for atomization up to 1.200 kg/h of evaporated water for the chemical sector (1991). Nozzles. Water evaporation 1200 kg/h.

➤ Spray dryer for the chemical sector (2007). Nozzles. Water evaporation 1.000 kg/h.



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SPRAY DRYER - CROMOGENIA UNITS SA



# Strategic positioning

**CAISA** has expanded its strategic positioning in Spain, Portugal and South America {except Brazil and Chile} with the signing of a collaborative agreement with the Italian multinational CMT Atomizers.

This alliance broadens **CAISA**'s market considerably, incorporating new services and high-tech products.

The collaborative agreement covers consulting, production and assembly, as well as after-sales maintenance of the equipment.

CMT Atomizers is one of the world's leading producers of high-performance rotary atomizers for spray drying applications in the dairy, food, pharmaceutical, chemical and flue gas cleaning industries (among others).







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