

ATOMIZERS

CMT Atomizers offers solutions covering a wide range of productions, from small-scale to large industrial plants, with a feed rate from 1 to 30,000 kg/h and speeds up to 60,000 rpm. Designed to ensure maximum reliability, superior product quality, and high performance, our atomizers are entirely made of stainless steel.

CMT has made significant investments in the development of Oil-Free Atomizers, providing state-of-the-art technology

ideal for applications where avoiding oil contamination is essential, such as in the food industry, infant formula production, dairy, flavors, and pharmaceutical sectors.

Our atomizers are designed using the most advanced 2D and 3D design technologies, including FEM, FEA, and CFD analysis, and are manufactured with first-class materials and components to meet the highest quality standards and customer expectations.

Applications:



Different driven system:

-  **AIR DRIVE**
Via Air compressed motor
-  **BELT DRIVE**
Via Special high performances belts
-  **DIRECT DRIVE**
Via high speed motor
-  **GEAR DRIVE**
Via high speed gearbox



HSG SERIES:

Efficiency, Reliability, and Maximum Safety



The **HSG series** is designed to minimize **noise and vibration**, enhancing operator comfort and reducing machinery wear. In continuous industrial operations, these features ensure **longer equipment lifespan** and a more sustainable working environment.

Available in **two power stages**, the **HSG series** adapts to different production needs:

- **HSG160**
Power range from **45kW** to **160kW**, maximum speed of **17,000rpm**, ideal for **medium-scale applications** requiring high performance.
- **HSG250**
Power range from **160kW** to **250kW**, maximum speed of **13,000rpm**, designed for **large-scale operations** where high power and reliability are essential.

MAXIMUM SAFETY AND COMPLIANCE WITH INDUSTRY STANDARDS

Safety is a top priority: the **HSG series** includes ATEX-certified versions, ensuring safe operation in explosive environments such as **chemical and mining industries**.

For applications requiring **strict hygiene standards**, **sanitary versions** are available, making them ideal for the **food, pharmaceutical, and biotechnology sectors**. These models guarantee safe operation without contaminating processed products.

A VERSATILE SOLUTION FOR EVERY INDUSTRIAL NEED

With an **advanced planetary gearbox design**, low emissions, and customizable configurations, the **HSG series** provides a **robust, efficient, and reliable** solution for industries demanding high performance and compliance with the strictest standards.



ATOMIZER SERVICE:

Precision, Safety, and Efficiency



The **Rotary Atomizer** is a critical component in spray drying plants, requiring top-quality servicing to maintain performance and reliability.

Our team of **highly specialized technicians** focuses exclusively on rotary atomizers, bringing years of expertise to ensure superior service.

At **CMT Atomizers**, our workshop is fully equipped with state-of-the-art tools to handle atomizer maintenance with **precision and safety**.

Each serviced atomizer undergoes a comprehensive test run, where we monitor key parameters such as:



OVERALL AND SPINDLE VIBRATION



BEARING TEMPERATURE



LUBRICATION EFFICIENCY



WHEEL WEAR INSPECTION AND BALANCING

Test runs can be performed **both empty and under load**, with feed rates up to **15 tons per hour**, ensuring the atomizer meets operational standards before returning to service.

FAST AND FLEXIBLE SERVICE SOLUTIONS

Our **responsive service department** ensures quick turnaround times, returning atomizers within **a few days to a few weeks**, depending on the repair scope. For customers preferring **on-site maintenance**, **CMT** experts provide **global field service**.

We also offer **customized maintenance contracts**, including **refurbishment, modernization, and upgrades** to enhance atomizer performance and safety, with full compliance to **ATEX regulations** and other industry standards.

ATOMIZER WHEEL SERVICE PROGRAM

The **atomizer wheel** operates under extreme **centrifugal forces** and requires **careful monitoring** to prevent failures and ensure operational safety.

CMT provides a **dedicated service program** for all atomizer wheel types, including:

- **Condition assessment** to determine usability or necessary repairs
- **Precision balancing and spin testing** for optimal performance
- **Final certification** guaranteeing compliance with the highest safety standards

With **CMT's expert servicing and proactive maintenance**, your atomizers will operate with maximum **efficiency, reliability, and safety**.

THE OEM SPARE PARTS

CMT provides non-OEM spare parts for the most popular atomizer brands, as well as original spare parts for our own models. All spare parts supplied by **CMT** are manufactured to the highest standards, using materials that are equal to or better than the originals. Each part is meticulously checked for tolerances, ensuring perfect interchangeability and competitive pricing.

Quality is our top priority at **CMT**. Every part undergoes thorough inspection by our Quality Assurance team before it is delivered to customers. Additionally, we keep a wide range of popular and commonly used parts in stock to ensure fast delivery times.



Many size and design of wheels available.

CIP NOZZLES

We can supply different models of **C.I.P. Nozzles** (Cleaning in place), standard version and customized version.



CIP NOZZLE HF

CIP Nozzles high flow rate Simple Design ST

- Open and close by the liquid pressure
- Self lubricating with cleaning media
- Active impact radius 2.5 meters
- Wetting radius 4.5 meters
- Blind spot less than 60°
- Variable stroke length from 62 to 600 mm
- Standard material AISI 316L
- Weld directly into the vessel or duct and flush with the adjacent areas
- ATEX certificate available
- Material certificates 2.2 or 3.1 available

CIP Nozzles high flow rate Pneumatic Design PA

- Open and close by pneumatic cylinder
- Self lubricating with cleaning media
- Active impact radius 2.5 meters
- Wetting radius 4.5 meters
- Blind spot less than 60°
- Variable stroke length from 62 to 600 mm
- Standard material AISI 316L
- Weld directly into the vessel or duct and flush with the adjacent areas
- Pneumatic cylinder equipped with position sensor
- ATEX certificate available
- Material certificates 2.2 or 3.1 available

CIP NOZZLE LF

CIP Nozzles low flow rate Simple Design ST

- Open and close by the liquid pressure
- Self lubricating with cleaning media
- Active impact radius 1.8 meters
- Wetting radius 3.5 meters
- Blind spot less than 60°
- Standard material AISI 316L
- Weld directly into the vessel or duct and flush with the adjacent areas
- ATEX certificate available
- Material certificates 2.2 or 3.1 available

CIP Nozzles low flow rate Pneumatic Design PA

- Open and close by pneumatic cylinder
- Self lubricating with cleaning media
- Active impact radius 1.8 meters
- Wetting radius 3.5 meters
- Blind spot less than 60°
- Standard material AISI 316L
- Weld directly into the vessel or duct and flush with the adjacent areas
- Pneumatic cylinder equipped with position sensor
- ATEX certificate available
- Material certificates 2.2 or 3.1 available