

The Most Advanced Frontier of Centrifugal Atomizers

Tradition Enriched with Innovation in CIP Retractable Nozzles



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AM Atomizers Technology

Highly Competent, Global and Innovative Rotary Atomizers and CIP Retractable Nozzles

AM Atomizers Technology was founded in 2018 with one purpose in mind: to turn the oil free rotary atomizer technology from its original niche application into the reference technological paradigm.



International Sound and Global View



With Modern Transmission System developed by AM Atomizers



From 0,5 kg/h to 25 t/h with no risk of powder contamination



CIP Retractable Nozzles Flexibles and Efficient



Our Product Philosophy

Oil Free Design

no need for lubricants and lubrication systems

Stainless Steel

Execution suitable for application in highly corrosive environments

Different Feed Connection Options Flange, Tri-clamp, Threaded, etc.

Different Product Contact Materials Options Stainless steel, Duplex/ Superduplex stainless steel, Hastelloy, Titanium, Inconel, etc.

Clean Design

No cables running all around the machines simplify the installation and increase the realibility



Simplified Maintenance

The ordinary maintenance can be performed in a few hours directly on site, reducing plant down time and increasing the continuity of operation

Different Drive Options

Belt drive with standard electric motors or Direct drive with high frequency electric motors

Different Options for Purging and Flushing

Compressed air, Inert gas, Quenching water, etc.

Fully

Customizable Dimension and Technical solutions

Wide Range of Choices for the Atomizer Wheel Straight holes, Curved vanes, Bell shaped, with Abrasion resistant Nozzle inserts, etc.

Complete Suite of Sensors To monitor the operating parameters in real time



Our Project Sectors



Food



Pharmaceutical



Solvent Recovery



Spray Cooling Process Applications*



Milk and Dairy



Chemical



Polymers, Waxes and Fats

Metal and Metal Oxyde Powders (Lithium, Cobalt, Nickel, etc.) for Battery Applications*

*Specific designs for these applications are available.



Flavors



Fertilizers



Ceramics and Catalysts



Flue Gas Cleaning (FGC) / Flue Gas Desulphurization (FGD)*







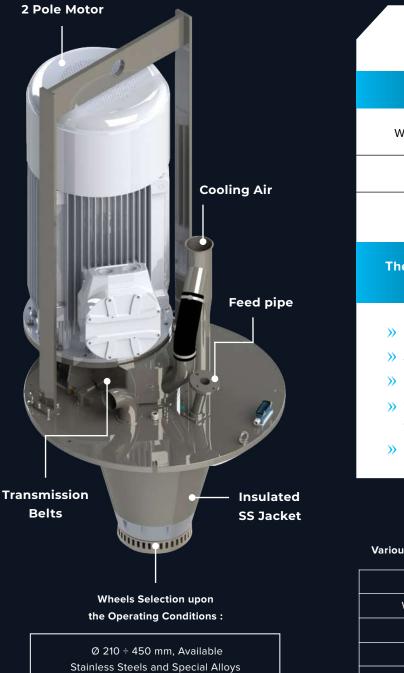
Spare Parts

We do not limit ourselves to the spare parts that can be supplied!





Large and Industrial Applications for All Sectors



AM-250-B-A

Specification

Wheel Speed 6,000-15,000 rpm

Feed Rate – max 40 t/h

Installed Power 90-355 kW

The accompanying monitoring system comprises :

- >> Spindle displacement alarm
- Accelerometer vibration alarms
- » Bearings temperature alarm
- Tachometer system to register wheel speed
- Flooding alarm

Various Types and Sizes of Wheel Available:

| With Nozzles |
|----------------------------------|
| With Straight or Curved Channels |
| With Holes |
| Narrow PDS |
| Bell wheel |
| Pin Wheel |

Feed pipe

Insulated

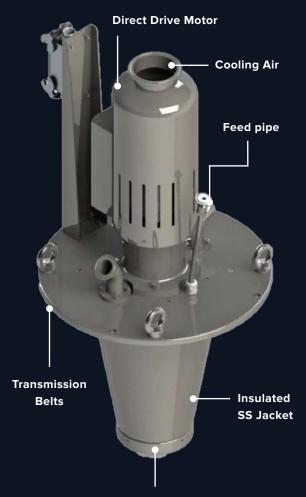
SS Jacket

RANGE OF OIL AND LIQUID FREE AM ATOMIZERS

Large and Industrial Applications for All Sectors



Direct Drive for All Applications

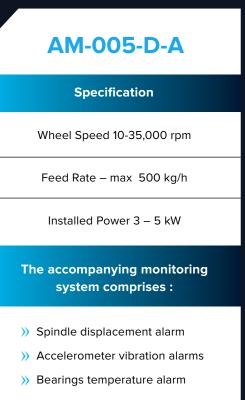


Various Types and Sizes of Wheel Available:

| With Nozzles | |
|----------------------------------|--|
| With Straight or Curved Channels | |
| With Standard Holes | |
| Narrow PDS | |
| Bell Wheel | |
| Pin Wheel | |

Wheels Selection upon the Operating Conditions :

Ø 150 ÷ 350 mm, Available Stainless Steels and Special Alloys



- Tachometer system to register wheel speed
- Flooding alarm



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RANGE OF OIL AND LIQUID FREE AM ATOMIZERS Spray Cooling Applications

| AM-075-D-X(SC) | Cooling Air |
|--|-------------------------------------|
| Specification | |
| Wheel Speed 1000-6500 rpm | Fee Pipe |
| Feed Rate – max 20 t/h | |
| Installed Power up to 60 kW | |
| The accompanying monitoring system comprises : | HighSpeed |
| >> Spindle displacement alarm >> Accelerometer vibration alarms | Coupling |
| Bearings temperature alarm | Insulated |
| Tachometer system to register wheel speed | SS Jacket |
| Flooding alarm | |
| | |
| | Prill Wheel |
| | Ø 150 ÷ 450 mm, Available |
| | Stainless Steels and Special Alloys |

Laboratory and Pilot Plant Application



Various Types and Sizes of Wheel Available:

With Nozzles

With Straight or Curved Channels

With Holes

Wheels Selection Upon the Operating Conditions :

Ø50 - 75 mm

AM-005-D-L

Specification

Wheel Speed 19000 - 60000 rpm

Feed Rate - max 20 kg/h

Installed Power 0,75 kW

Laboratory Application

The AM Centrifugal Atomizers for Laboratory Applications are high speed rotating machines specifically designed for use in laboratory scale spray drying and spray cooling processes.



High and Low Flow Versions

The AM Rotary Spray Nozzle is a retractable cleaning device specifically intended for use in harshand heavily dust laden environments (cyclones, reactors, storage vessels, etc).

The use of high quality materials, a customer-oriented design and years of engineering experience make our nozzles the best choice when it comes to find a reliable Retractable cleaning device.

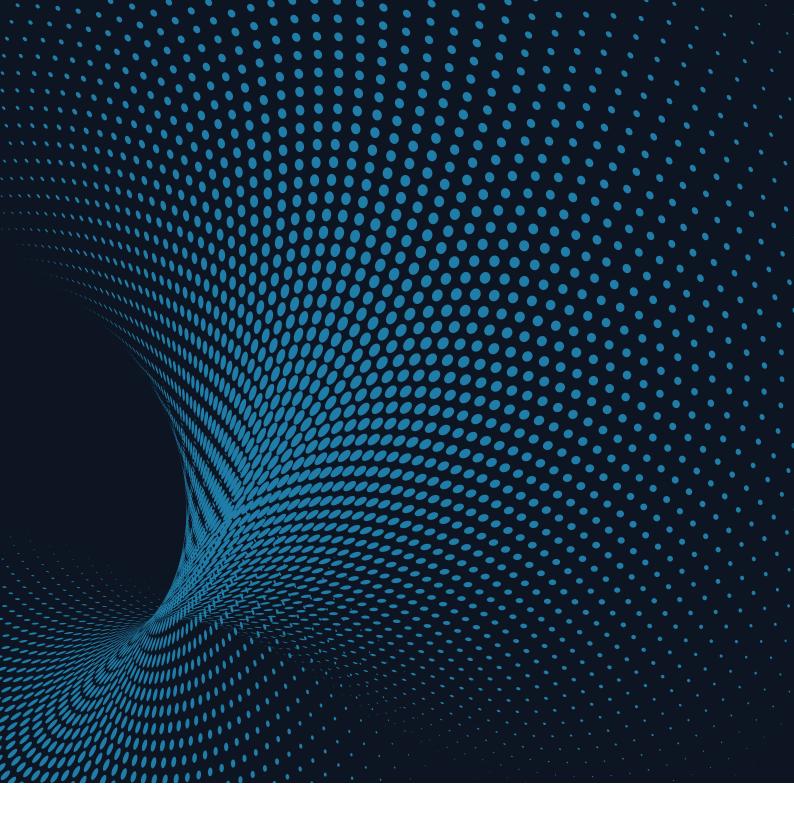


RSNLF Flowrate vs Feed Pressure



RSNHF **Flowrate vs Feed Pressure** 8 7 6 FLOW RATE [m³/h] 5 4 3 2 1 0 0 0,5 2 2,5 3 3,5 1,5 4 4,5 5

FEED PRESSURE [BARG]





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