

The Most Advanced Frontier of Centrifugal Atomizers

Tradition Enriched with Innovation
in CIP Retractable Nozzles



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 reliability



**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

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

25.000
kg/hr

Max
Feed Rate

60.000
rpm

Max Rotational
Speed

5

Continent
Served

∞

Possible
Application

Our Project Sectors



Food



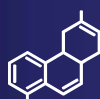
Milk and Dairy



Flavors



Pharmaceutical



Chemical



Fertilizers



**Solvent
Recovery**



**Polymers,
Waxes and Fats**



**Ceramics
and Catalysts**



**Spray Cooling
Process
Applications***

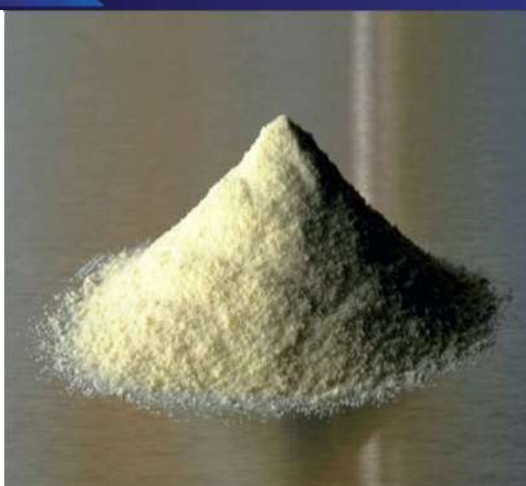


**Metal and Metal
Oxide Powders**
(Lithium, Cobalt, Nickel, etc.)
for Battery Applications*



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

*Specific designs for these applications are available.



Spare Parts

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



Examples

Atomizer Wheels • Liquid Distributors • Spindles • Housings
Bearing Guides • Feed Chamber • Gears Box Set • Volutes



Range of Oil and Liquid Free AM Atomizers

Large and Industrial Applications for All Sectors



Ø 210 ÷ 450 mm, Available
Stainless Steels and Special Alloys

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

Range of Oil and Liquid Free AM Atomizers

Large and Industrial Applications for All Sectors

AM-075-B-A

Specification

Wheel Speed 6,000-15,000 rpm

Feed Rate – max 12,5 t/h

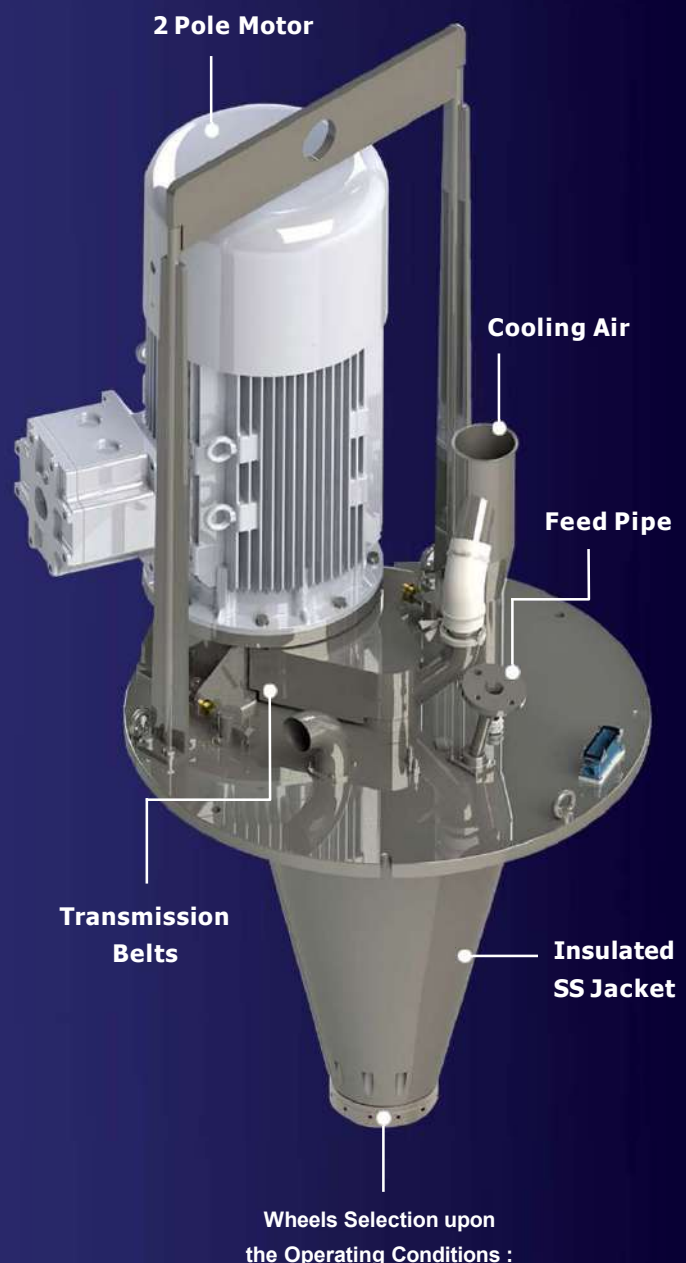
Installed Power 18,5-90 kW

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



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

Range of Oil and Liquid Free AM Atomizers

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

AM-005-D-A

Specification

Wheel Speed 10-35,000 rpm

Feed Rate – max 500 kg/h

Installed Power 3 – 5 kW

The accompanying monitoring system comprises :

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



Range of Oil and Liquid Free AM Atomizers

Spray Cooling Applications

AM-075-D-X(SC)

Specification

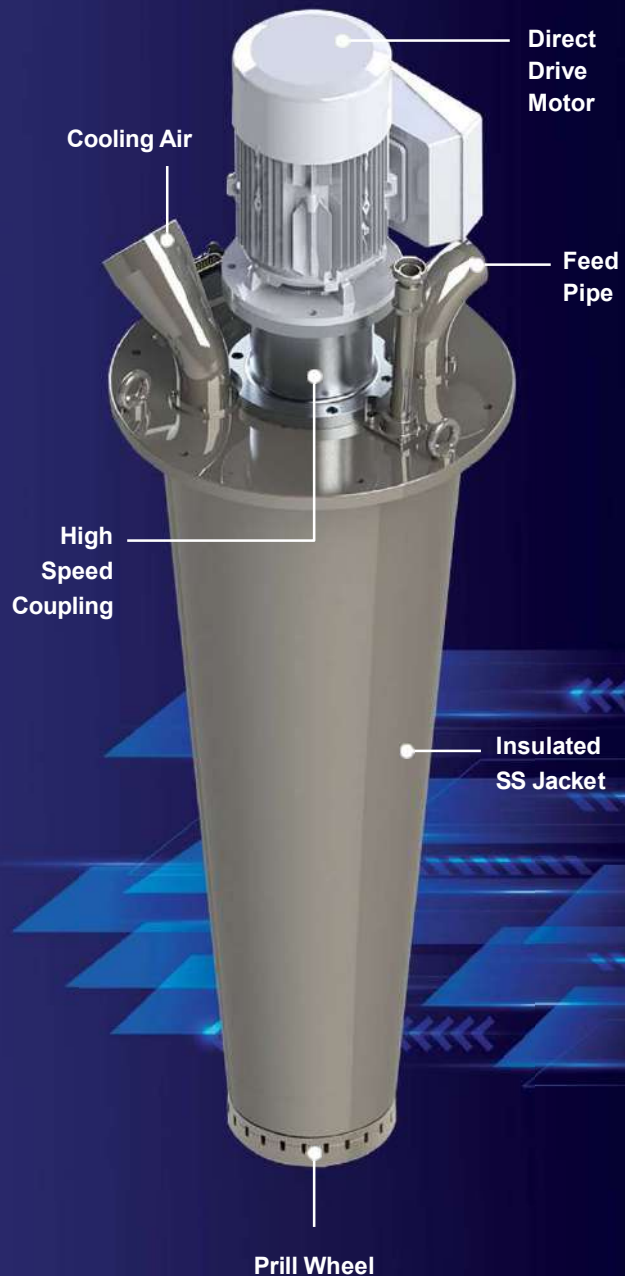
Wheel Speed 1000-6500 rpm

Feed Rate – max 20 t/h

Installed Power up to 60 kW

The accompanying monitoring system comprises :

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



Ø 150 ÷ 450 mm, Available
Stainless Steels and Special Alloys



Range of Oil and Liquid Free AM Atomizers

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.



Range of AM CIP Nozzles

High and Low Flow Versions

The AM Rotary Spray Nozzle is a retractable cleaning device specifically intended for use in harsh and 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.

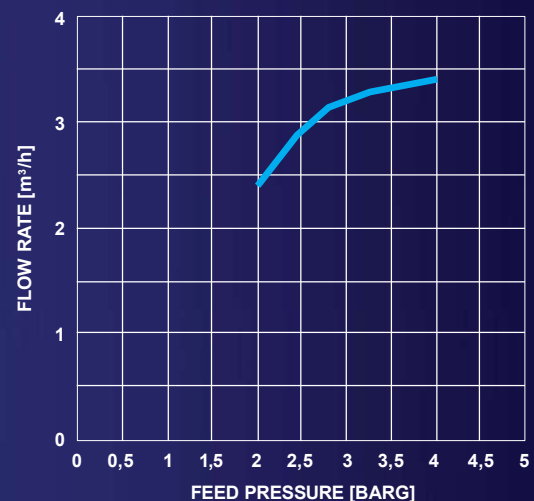
RI VERSION

Liquid Operated - Rear Inlet



RSNLF

Flowrate vs Feed Pressure



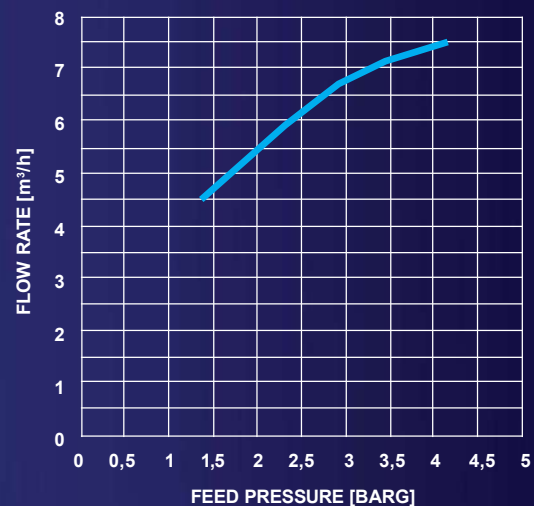
SI VERSION

Pneumatic Actuator-operated - Side Inlet



RSNHF

Flowrate vs Feed Pressure



The Most Advanced Frontier of Oil Free Centrifugal Atomizers



55 kW -18000



355 kW -12000 rpm



132 kW - 18000 rpm



7,5 kW-25000 rpm



0,75 kW -60000 rpm

The Most Advanced Frontier of OIL Free Centrifugal Atomizers



Direct Drive system



Up side system



ATEX Solutions



30 kW - 18000 rpm



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