



ATOMIZERS TYPE

CMT Atomizers

CMT Atomizers are designed on the basis of 7 fundamentals:

- High quality standards, designed according to CE regulations
- First class materials and components
- High reliability for long terms operations and avoid downtime in production
- Smooth operation without vibrations, of great importance in all industrial productions.
- High centrifugal force available with high rotation speed of the wheel (up to 250mt/sec)
- Correct distribution configuration
- Flexibility

Delivery Program

Drive technologies available in our delivery program:

- Air Drive
- Belt Drive
- Direct Drive with high speed motors (Air and liquid cooled)
- Capacity in feed rate from 1kg/h to 30 Tons/h

Applications are in the following industries :

- Food
- Dairy
- Chemical
- Pharmaceutical
- Flue gas Cleaning

Delivery Program

All the CMT atomizers, depending on application and industry destination, can be supplied according to:

- Hygienic Design
- GMP Standards
- Atex requirements for inside/outside classified area in the dryer
- Heavy duty design for abrasive and/or corrosive environment
- Heavy duty design for extremely high temperatures of process air - up to 1.000°C
- Spray Congealing
- CC- Closed Cycle operation



CMT ATOMIZERS TYPE - 2019



Oil Free Atomizers

- Unique design
 - High quality standards in terms of hygiene and sanitary regulation
 - Used in food, flavor, dairy and pharma applications
 - Any risk of oil contamination in the product must be avoided
-
- Direct drive
 - High speed motor (no belts are required)
 - No risk of pollution from belts
 - Very low noise emission

Anyway as option also belt driven is available as oil free version.

CMT Atomizers AF Models

CMT ATOMIZERS TYPE - 2019



AF 05A



- Direct drive atomizer with High Speed Motor air compressed cooled
- Power rate 0.7Kw
- Capacity up to 20 kg/h feed rate
- Wheel diam. 50mm
- Speed range from 10.000 to 60.000 rpm, adjustable by frequency converter
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 5 kg
- Suitable to replace GEA NIRO MM – MO2

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level < 60 db(A)
Simple in maintenance
Easy to handle

AF 07A



- Direct drive atomizer with High Speed Motor
- Power rate 0.7Kw
- Capacity up to 30 kg/h feed rate
- Wheel diam. 63mm
- Speed range from 10.000 to 60.000 rpm, adjustable by frequency converter
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 8 kg
- Suitable to replace SPX Anhydro CH63

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level < 60 db(A)
Simple in maintenance
Easy to handle

AF 10A



- Direct drive atomizer with High Speed Motor
- Power rate 1.3Kw
- Capacity up to 120 kg/h feed rate
- Wheel diam. 100-120mm
- Speed range from 10.000 to 30.000 rpm, adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 16 kg
- Suitable to replace GEA NIRO FS1 – FX1

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level < 65 db(A)
Simple in maintenance
Easy to handle

AF 15A



- Direct drive atomizer with High Speed Motor
- Power rate 3 and 5 Kw
- Capacity up to 500 kg/h feed rate
- Wheel diam. 120mm
- Speed range from 10.000 up to 36.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 80 kg
- Suitable to replace GEA NIRO FU11- FS11

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF 20 - 1A



- Direct drive atomizer with High Speed Motor
- Atomizer and motor cooling with separate centrifugal fan
- Power rate 3 and 5Kw
- Capacity up to 500 kg/h feed rate
- Wheel diam. 120-150mm
- Speed range from 10.000 up to 24.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 130 kg
- Suitable to replace GEA NIRO F10

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF 20A



- Direct drive atomizer with High Speed Motor
- Atomizer and motor cooling with separate centrifugal fan
- Power rate 10 and 12Kw
- Capacity up to 1100 kg/h feed rate
- Wheel diam. 150mm
- Speed range from 10.000 up to 24.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 140 kg
- Suitable to replace GEA NIRO F15-FS15

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF 30A



- Direct drive atomizer with High Speed Motor
- Atomizer and motor cooling with separate centrifugal fan
- Power rate from 15 to 30Kw
- Capacity up to 3000 kg/h feed rate (according motor power)
- Wheel diam. 210-220-250mm
- Speed range from 8.000 up to 16.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 300 kg
- Suitable to replace GEA NIRO F35

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF 30W



- Direct drive atomizer with High Speed Motor water-cooled
- Power rate from 15 to 75Kw
- Capacity up to 8000 kg/h feed rate (according motor power)
- Wheel diam. 210-250mm
- Speed range from 8.000 up to 18.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Oil lubrication required for bearings
- Available on request with state of the art sealed hybrid ceramic bearings (oil free)
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 600 kg
- Suitable to replace GEA NIRO F60-F100

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF 40W



- Direct drive atomizer with High Speed Motor water-cooled
- Power rate from 55 to 160Kw
- Capacity up to 16000 kg/h feed rate (according motor power)
- Wheel diam. 210-240-320 mm
- Speed range from 8.000 up to 16.000 rpm adjustable by frequency converter
- Available on request with state of the art sealed hybrid ceramic bearings (oil free)
- Spiral liquid distributor design
- Oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 400 kg
- Suitable to replace GEA NIRO F100-F160

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF D100 - AN



- Direct drive atomizer with High Speed Motor
- Power rate 3 Kw
- Capacity up to 300 kg/h feed rate
- Wheel diam. 100mm
- Speed range from 10.000 up to 30.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 80 kg
- Suitable to replace SPX Anhydro CJ100

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF D160 - AN



- Direct drive atomizer with High Speed Motor
- Atomizer and motor cooling with separate centrifugal fan
- Power rate 5 and 12Kw
- Capacity up to 1000 kg/h feed rate
- Wheel diam. 160mm
- Speed range from 10.000 up to 24.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 150 kg
- Suitable to replace SPX Anhydro CE160

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

AF D250 - AN



- Direct drive atomizer with High Speed Motor
- Atomizer and motor cooling with separate centrifugal fan
- Power rate 12 and 30 Kw
- Capacity up to 4000 kg/h feed rate
- Wheel diam. 250 mm
- Speed range from 8.000 up to 14.000 rpm adjustable by frequency converter
- Spiral liquid distributor design
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 400 kg
- Suitable to replace SPX Anhydro CE250 – CF250

Main features:

High reliability
Very smooth running
High periphery speed
Very low noise level
Reduced maintenance due to direct drive
Simple in maintenance
Easy handling and operation

CMT Atomizers TC Models

CMT ATOMIZERS TYPE - 2019



TC 10



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 1.5kW
- Capacity up to 130 kg/h feed rate
- Wheel diam. 100-120mm
- Speed range from 10.000 up to 30.000 rpm adjustable by frequency converter
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings
- Totally manufactured in stainless steel AISI316L
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 50 kg
- Suitable to replace SPX Anhydro CH100

Main features:

High reliability
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC 15



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate 3 and 5,5 Kw
- Capacity up to 450 kg/h feed rate
- Wheel diam. 120-150 mm
- Speed range from 10.000 up to 24.000 rpm adjustable by frequency converter
- Oil Lubrication by automatic lubricator
- Equipped with state of the art sealed hybrid ceramic bearings
- Oil free. No oil lubrication required for bearings (on request)
- Totally manufactured in stainless steel
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 100 kg
- Suitable to Replace Gea Niro F11

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC 20



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 3 up to 11kW
- Capacity up to 900 kg/h feed rate
- Wheel diam. 120-150-160mm
- Speed range from 10.000 up to 25.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Equipped with state of the art sealed hybrid ceramic bearings up to 5.5Kw (on request)
- Oil free. No oil lubrication required for bearings (on request)
- Totally manufactured in stainless steel
- Sanitary execution
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. 150 kg
- Suitable to replace GEA NIRO F10-F15

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC 30



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 15 up to 45kW
- Capacity up to 4500 kg/h feed rate
- Wheel diam. 210-220-250mm
- Speed range from 8.000 up to 16.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled and Spiral liquid distributor design available
- Sanitary design available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 400 to 600Kg depending motor size
- Suitable to replace GEA NIRO F35

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC 40



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 55 up to 90kW
- Capacity up to 9000 kg/h feed rate
- Wheel diam. 250-320mm
- Speed range from 7.000 up to 13.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled, Spiral and Swirl liquid distributor design available
- Sanitary execution available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems
- Sanitary design available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 800 to 1100 kg depending motor size
- Suitable to replace GEA NIRO F60-F100

Main features:

High reliability
High capacity
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC 50



- Power rate from 110 up to 160kW
- Capacity to 16000 kg/h feed rate
- Wheel diam. 320-350-400mm
- Speed range from 8.000 up to 11.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled, Spiral and Swirl liquid distributor design available
- Sanitary execution available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems
- Sanitary design available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 900 to 1500 kg depending motor size

Main features:

High reliability
High capacity
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC D160 - CB



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 4 up to 11kW
- Speed range from 8.000 up to 20.000 rpm adjustable by frequency converter
- Capacity up to 1.000 kg/h feed rate (according rpm)
- Wheel diam. 160mm
- Oil lubrication by automatic lubricator or cotton wick oil drop
- Drilled and Volute liquid distributor design available
- Sanitary design available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- Weight approx. from 180 to 240 Kg depending motor size
- Suitable for replacement CD-CB 160 SPX Anhydro

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC D250 - CF



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 37 up to 55kW
- Capacity up to 7.000 kg/h feed rate
- Wheel diam. 250mm
- Speed range from 8.000 up to 14.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled and Volute liquid distributor design available
- Sanitary design available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 600 to 800Kg depending motor size
- Suitable for replacement CE-CF250 SPX Anhydro

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

TC D400 - CC



- Belt drive atomizer with 2 poles motor vertical flange
- Power rate from 55 up to 160kW
- Capacity up to 16000 kg/h feed rate
- Wheel diam. 400mm
- Speed range from 5.000 up to 9.500 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled and Volute liquid distributor design available
- Sanitary design available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 1200 to 2100Kg depending motor size
- Suitable for replacement CA-CC400 SPX Anhydro

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

CMT Atomizers HSG (High Speed Gearbox) Models

HSG - 160



- Gearbox – Oil cooler on board for automatic temperature Control
- Power rate from 45 up to 160kW
- Capacity up to 16.000 kg/h feed rate
- Wheel diam. 210mm – 240/250 mm
- Speed range up to 18.000 rpm adjustable by frequency converter
- Oil lubrication by automatic lubricator
- Drilled and Volute liquid distributor design available
- Sanitary design available
- Atomizer spindle in special high resistant steel
- Many wheels design available for abrasive, non-abrasive and corrosive feed applications
- Safety monitoring systems (available on request)
- GMP execution available
- ATEX design available
- CIP cleanable
- SDA design available for application in Flue Gas Cleaning industries
- Weight approx. from 1200 to 2100Kg depending motor size
- Suitable for replacement Gea Niro F100 – F160 “Plug and Run”

Main features:

High reliability
Heavy duty design
Very smooth running
High periphery speed
Simple in maintenance
Easy handling and operation

CMT in the World



Headquarter:

Via A. Gramsci, 20
20847 Albate – Milan

www.cmtatomizers.com

We work hard to build a solid reputation
We can't buy it. **We must earn it.**

Thank you for your attention!