

CICLONE

DUST SUPPRESSION SYSTEMS

www.ciclonedust.com

Finer
HYDRAULICS

APPLICATION FIELDS



CIVIL AND INDUSTRIAL DEMOLITIONS



INERT MATERIAL CRUSHING AND RECYCLING



QUARRIES AND EXTRACTIONS



UNDERGROUND TUNNELING



WASTE RECYCLING AND COMPOSTING



REMEDIATIONS AND SANITATIONS



WOOD RECYCLING



FERROUS MATERIAL RECOVERY



PORTS AND SHIPS UNLOADING



HEAVY INDUSTRY PRODUCTION PROCESSES

CM SERIES SEMI-AUTOMATIC SYSTEMS

The "CM" series is our **BEST SELLER** and was **THOUGHT, DESIGNED** and **BUILT** by **CICLONE S.r.l.** to offer the Customer an **EXTREMELY EFFICIENT** solution with an **ACCESSIBLE PRICE**. The "CM" series is very appreciated for the inclusion in **RENTAL FLEETS**.



CM253



CM305



TECHNICAL SHEET-CM SERIES

"CM" SERIES MODELS, SEMI-AUTOMATIC RANGE	CM 253	CM 305	CM 408	CM 5011	CM 6015	CM 7018
THROW mt.	30 (98 ft)	40 (131 ft)	45 (147 ft)	55 (180 ft)	70 (229 ft)	80 (262 ft)
No. Of NOZZLES on STAINLESS STEEL CROWN	30	30	45	45	45	45
INTERCHANGEABLE NOZZLE CROWN (QRM)	Not available	Optional	Optional	Optional	Optional	Optional
ELECTRONIC TURBINE ROTATION	340°	340°	340°	340°	340°	340°
MANUAL TURBINE TILTING	-10°>50°	-10°>50°	-10°>50°	-10°>50°	-10°>50°	-10°>50°
FAN MOTOR 380V 50Hz three-phase	3Kw – 1500rpm	5Kw-1500rpm	7,5 Kw-2800 rpm	11 Kw-2800 rpm	15 Kw-2800 rpm	18 Kw-2800 rpm
MOTOR START	Direct	Direct	Soft Start	Soft start	Soft Start	Soft Start
INVERTER for JET DISTANCE ADJUSTMENT	Not available	Optional	Optional	Optional	Optional	Optional
MULTISTAGE SELF-PRIMING PUMP	Series-10 bar	Series-10 bar	Series-10 bar	Series-10 bar	Series-10 bar	Series-10 bar
WATER CONSUMPTION	25 l/min (6.6gal)	35 l/min (9gal)	35 l/min (9gal)	40 l/min(10.5gal)	45 l/min (12gal)	60 l/min (16 gal)
HIGH-PRESSURE SELF PRIMING PUMP	Optional-70 bar	Optional-70 bar	Optional-70 bar	Optional-70 bar	Optional-70 bar	Optional-70 bar
WATER CONSUMPTION	16 l/min (4.2gal)	21 l/min (5.5gal)	21 l/min (5.5gal)	28 l/min (7.3gal)	28 l/min (7.3gal)	35 l/min (9gal)
STAINLESS STEEL FILTER 150 µm – 100 Mesh	Yes	Yes	Yes	Yes	Yes	Yes
REMOTE CONTROL	Optional	Optional	Optional	Optional	Optional	Optional
CONFIGURATIONS	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height
CUSTOMIZATION AVAILABILITY	Yes	Yes	Yes	Yes	Yes	Yes

CM SERIES SEMI-AUTOMATIC SYSTEMS

The "CM" series has been equipped with a new configuration: it is versatile, flexible, easy to use and has reduced dimensions in order to be transported easily with a van or a pickup truck and to have a ready-to-use efficient dust suppression system on the construction site.

NEW VERSION WITH 1000 LT. TANK + GENSET AND ELECTRONIC TURBINE ROTATION OF 340°, PROGRAMMABLE BY PLC.



THIS NEW VERSION OF THE **CM253** MODEL ALLOWS THE TURBINE TO BE RAISED BY MEANS OF A TELESCOPIC BOOM WITH MANUAL WINCH.

MAIN CHARACTERISTICS OF THE "CM" SERIES MODELS

- Electronic turbine rotation of 340°, programmable by PLC
- Multistage centrifugal pump with "self-priming" function for "gravity feeding" without inlet pressure (e.g. from a tank)
- Wireless remote control
- Nice performances and low water consumptions
- Extremely easy to use and program thanks to the intuitive PLC
- Suitable for intensive use on site thanks to the

FTW technology

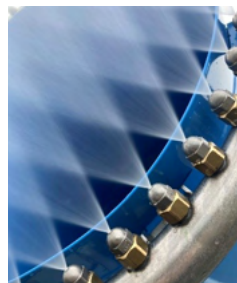
- Customized color of your company
- Very few maintenance operations
- Possibility of assembly for the creation of self-propelled autonomous systems
- Appreciation of the use of dust suppression systems by environmental control bodies
- All the machines manufactured by Ciclone S.r.l. are compatible with "4.0 Industry"



Lowara multistage vertical electropump, 23 or 32 stainless steel rotors, 10bar with self-priming water function.



Programming of the working angle and all the functions of the machine by means of a intuitive touch screen inserted in the switch board.



Monarch (USA) self-cleaning nozzles with different diameter holes (micron), adjustable as needed.



Quick release stabilizers. Third steering wheel and rudder with France eye type to be towed on site.



Solid structure made with tubular, boxed and rolled thick steel.

CE SERIES ELECTRONIC SYSTEMS



CE253



CE305



CE SERIES ELECTRONIC SYSTEMS

"CE" SERIES MODELS, ELECTRONIC RANGE	CE 253	CE 305	CE 408	CE 5011	CE 6015	CE 7018
THROW mt.	30 (98 ft)	40 (131 ft)	45 (147 ft)	55 (180 ft)	70 (229 ft)	80 (262 ft)
No. of NOZZLES on ALUMINUM CROWN	64 (32x2) stainless steel	60 (20x3) stainless steel	60 (20x3) stainless steel	60 (20x3) stainless steel	60 (20x3) stainless steel	60 (20x3) stainless steel
HEATED CROWN	YES	YES	YES	YES	YES	YES
ELECTRONIC TURBINE ROTATION	340°	340°	340°	340°	340°	340°
ELECTRONIC TURBINE TILTING	-20°+45°	-20°+45°	-20°+45°	-20°+45°	-20°+45°	-20°+45°
FAN MOTOR 380V 50Hz three-phase	3Kw – 1500rpm	5Kw-1500rpm	7,5 Kw-2800 rpm	11 Kw-2800 rpm	15 Kw-2800 rpm	18 Kw-2800 rpm
MOTOR START	Direct	Direct	Soft Start	Soft start	Soft Start	Soft Start
INVERTER for JET DISTANCE ADJUSTMENT	Not available	Optional	Optional	Optional	Optional	Optional
MULTISTAGE SELF-PRIMING PUMP 10bar	Series	Series	Series	Series	Series	Series
WATER CONSUMPTION	25 l/min (6.6gal)	35 l/min (9gal)	35 l/min (9gal)	40 l/min (10.5gal)	45 l/min (12gal)	60 l/min (16 gal)
HP PISTON SELF-PRIMING PUMP 60 bar	Optional	Optional	Optional	Optional	Optional	Optional
WATER CONSUMPTION	16 l/min (4.2gal)	21 l/min (5.5gal)	21 l/min (5.5gal)	28 l/min (7.3gal)	28 l/min (7.3gal)	35 l/min (9gal)
STAINLESS STEEL FILTER 150 µm – 100 Mesh	Series	Series	Series	Series	Series	Series
REMOTE CONTROL	Optional	Optional	Optional	Optional	Optional	Optional
AVAILABLE CONFIGURATIONS	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height	Fixed base/ Trolley/Tower/ In height
CUSTOMIZATION AVAILABILITY	Yes	Yes	Yes	Yes	Yes	Yes

CE SERIES ELECTRONIC SYSTEMS



The "CE" series is the top of the line product manufactured by CICLEONE S.r.l.

- It offers the Customer a top level solution of features and technology applied to systems that suppress and control dust and odors.
- An electronic 340° rotation and tilting of the turbine programmable by PLC.
- 10bar multistage centrifugal pump or as optional the 70bar high pressure pump with "self-priming" function for "gravity" feeding (from tank).
- Appreciation of the use of dust suppression systems by environmental control bodies.
- Remote control to wirelessly program the machine.
- Nice performances and low water consumptions.
- Extremely easy to use and program thanks to the intuitive PLC.
- Suitable for intensive use on site thanks to the FTW technology.
- Very few maintenance operations.
- Customized color of your company.



Nozzle crown made of die-cast and cnc-machined aluminum monoblock.



Solid structure made with tubular, boxed and rolled thick steel.



PLC on board for machine start-up. Touch screen and tilting of the turbine -20° +45°.



Lowara SV series stainless steel multistage vertical electropump, 22 or 32 stainless steels rotors with self-priming water function.

MANUAL SYSTEMS

C20 AND ITS VARIANTS



The only machine in its segment to mount a 70bar High Pressure pump.

Supply voltage 220Volt 50Hz SINGLE-PHASE.

The configurations:

- standard with wheels
- with genset
- with separate pump
- on a pole with manual slewing ring



TECHNICAL SHEET C20

MODEL	C20
THROW	15/25 mt. (50/82 ft)
NOZZLES	4
TURBINE TILTING	- 10°+50°
MANUAL TURBINE ROTATION	360°
TOTAL POWER INSTALLED	3 kw
PRODUCTION	Series
MOTOR START	Direct
INSTALLED PUMP	High pressure piston self-priming pump with inlet filter
PRESSURE	20<60
NOMINAL VOLTAGE	220 Volt- 50Hz monophase



C20
 SMALL SIZE
 GREAT PERFORMANCES
 UNBEATABLE PRICE
 MONOPHASE 220V -50HZ

AUTONOMOUS SYSTEMS

Mobile autonomous dust suppression units, a perfect system to control the dust where electric power and water are not present.

ASK US WHAT YOU NEED!

The customization of the machines and systems which are custom made for customers with particular needs, are what distinguishes CICLONE S.r.l. from other proposals present on the market.



SPECIAL APPLICATIONS



IN HEIGHT INSTALLATION

The best solution to control the dust and pollution from high positions. These systems have a 340° automatic rotation and -20° > $+50^{\circ}$ tilting, both programmable by PLC or remote control. A separate steel structure on the ground contains in a secure position the HP pumps, filters and dosing pumps for mixing chemical additives, electronic and electric panels and remote control receiver.



OPTIONALS AND AVAILABLE ACCESSORIES

CICLONE S.r.l. offers to its Customers a wide range of optional accessories that significantly complete its machines, making them more performing or adapting them to the many types of work where usually our dust and odor suppression and control systems are used.



REMOTE CONTROLS with 4 or 12 channels to control and program wirelessly all the CICLONE S.r.l. dust suppression systems.



DOSING PUMPS either mechanical or with electric impulses, that allow the mixing in percentage (%) of sanitizing products, antiodorants and coagulants.



"QRM" SYSTEM OF INTERCHANGEABLE NOZZLE CROWN. The "Cam-Lock" system allows to quickly change the whole nozzle crown with a remarkable time reduction of the machine downtime for maintenance and nozzle cleaning.



70bar **HIGH PRESSURE PISTON PUMPS** with different water consumptions from 8l/min (2gal) to 41l/min (10gal) that adapt to each machine used to control and suppress dust in those fields where it is necessary to reduce the water emission on the materials.



PRESSURE WASHER LANCE. An accessory that can be matched to all the Ciclone high pressure pump systems. This systems allows to pressure wash the work vehicles on site at the end of the day without any need of another washing device.



DO YOU WANT TO ALWAYS KNOW WHERE YOUR MACHINES ARE? We incorporate in all of our machines a GPS tracking system that shows the live position of the machine on your smartphone.



THE DUST RISES ON WEEK-ENDS TOO. A very useful system in unmanned sites. Ciclone S.r.l. is also able to incorporate in its machines electronic PM10 dust detection systems or cup anemometers to automatically start the machines when critical air pollution limits are reached and the operator is not there to operate the dust suppression systems.



CLEAN WATER SAVES THE MACHINES. We install additional filters on the water supply lines so that it arrives clean at the nozzles. This allows to reduce quite a lot the cleaning operations of the nozzles, which are the heart of the nebulization.



THE MACHINES WITH YOUR COMPANY'S COLOR. The painting of our machines is done with **EPOXY POWDERS** which are passed through static baking furnaces, ensuring a long lasting color shine and a remarkable protection from metal corrosion.

CUSTOMER SERVICE AND SPARE PARTS.

CICLONE S.r.l. offers an online customer service in video conference with one of our technicians. In our Youtube channel you can find the section MAINTENANCE with dedicated video of various situations of first interventions with suggestions on maintenance and repairing of our machines. The SPARE PARTS SERVICE gives you any part, always in stock in our warehouse, in 24/48 hours through express courier.



IMPORTANT NOTE: Ciclone S.r.l. is the designer and manufacturer of all the machines and systems present in this PDF. The dust suppression and control systems are manufactured by CICLONE S.r.l. in its own factory in Zevio (VR) and is the sole owner of the projects, the patents and the moulds for their construction.

STATIC NOZZLES DUST SUPPRESSION AND DEDUSTING SYSTEMS FOR TRUCKS

We design, build and install **HIGH PRESSURE** plants with **STATIC LINEAR** or **PERIMETRIC PIPES** with **FIXED NOZZLES**.





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