

*EOS*_{4.0}





ENERGY-EFFICIENT RESOURCE-SAVING FLEXIBLY CONFIGURABLE

With **EOS 4.0**, DEMACLENKO presents its latest generation resource-saving and energy-efficient lance. Years of proven technology go hand in hand with a whole series of innovations to create a product that fully meets the demands of the market. The nozzle head and the control cabinet have been completely redesigned, with even more efficiency and performance increases. Like its predecessor, **EOS 4.0** also boasts impressive versatility: For example, customers can choose between manual and automatic operation, one-stage to eight-stage control or the type of compressed air supply.

1 **FAST AND UNCOMPLICATED INSTALLATION** THANKS TO COMPACT, PRE-ASSEMBLED COMPONENTS

2 **EASY TRANSPORT** AS WELL AS SIMPLE ASSEMBLY AND DISASSEMBLY DUE TO THE LOW WEIGHT

3 **OPTIMIZED DESIGN OF THE NOZZLE HEAD** WITH NEW NOZZLE ARRANGEMENT AND IMPROVED WATER NOZZLES AND NUCLEATORS

4 **REFINED CONTROL** BETWEEN THE UP TO **8 POSSIBLE SWITCHING STAGES**

5 **FLEXIBLE CONFIGURATION OPTIONS** THAT CAN BE CUSTOMIZED TO MEET INDIVIDUAL REQUIREMENTS AND CUSTOMER PREFERENCES

6 **ALSO AVAILABLE IN A POWERFUL DOUBLE-HEAD VERSION** TO ACHIEVE EVEN HIGHER PRODUCTION VOLUMES



EOS_{4.0}

With a water flow rate of 6.9 l/s, the EOS 4.0 achieves one of the highest values in its class. The double-head lance EOS 4.0 DUO even achieves an unbeatable 8 l/s.





EOS 4.0 – Details

OVERVIEW

- > Aluminium lance head: brass alloy nucleators and water nozzles with stainless steel inserts
- > Up to 8 control steps
- > Also available as double-head version with 210° spray angle
- > Force-cooled weather station
- > Cast aluminum valve block with built-in water filter
- > The ball joint allows the lance to be lowered and rotated to any position, without needing to disconnect the water hose
- > The lance can be extended and retracted for maintenance by means of a hydraulic cylinder
- > Available with central pressurized air supply or with oil-free compressor
- > All lance components can be easily installed or removed
- > Lightweight lance pipe made from extruded aluminum
- > LED spotlights
- > Available in automatic or manual control options

AUTOMATIC FUNCTIONS

- > Fully automatic snow production when operated in a network or in isolation
- > 7" color touchscreen showing water temperature, pressure, water flow, snow quality, air temperature, humidity, electrical consumption as well as statistical data
- > Software and operating system available in various languages
- > Water flow control

DLC 4.0, DEMACLENKO'S HIGH PERFORMANCE CONTROLLER

- > Designed for 220/230/380/400/440/480 V - 50/60 Hz*
- > Efficient cabling via CAN bus
- > Operation via WiFi as standard using smartphone, tablet, laptop
- > Remote maintenance and updates via GSM
- > GPS receiver
- > Proven and weatherproof DEMACLENKO touch display, easy to operate with any type of glove
- > Integrated interfaces Ethernet, WiFi or USB

*Other voltages available upon request

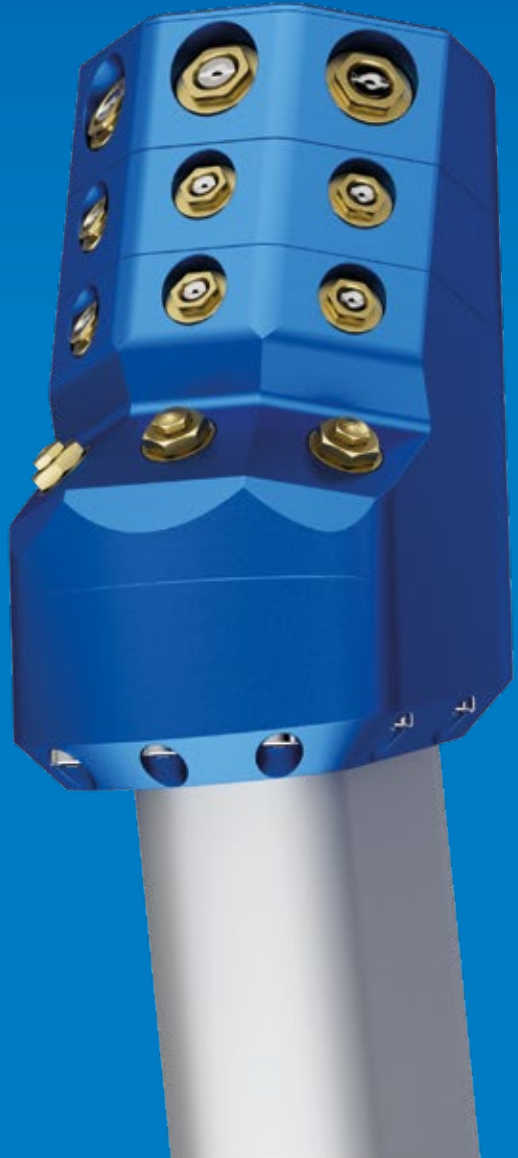
EOS_{4.0} DUO A4/M4



EOS_{4.0} A8/M8



EOS_{4.0} A4/M4



Highest technology standards

With **EOS 4.0**, DEMACLENKO sets new standards for lances, especially with regard to nozzle technology and the lance head design. The predecessor model has been thoroughly reworked and the horizontal nozzle rows have been scaled and optimized from 4 to 3 per level. This has resulted in numerous advantages:

- + Even better snow quality thanks to the improved nozzles and nucleators, especially at marginal temperatures
- + Longer droplet fall time thanks to readjusted discharge angles, which also has a positive effect on snow quality
- + Increased flow
- + Lower sensitivity to dirt
- + Minimal susceptibility to wind

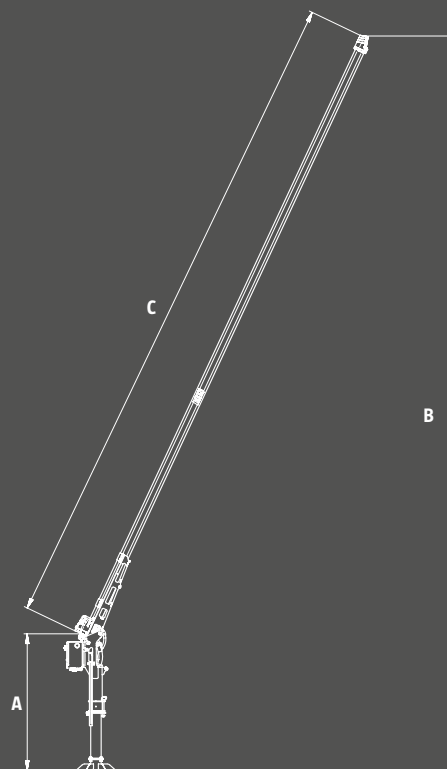


EOS_{4.0} A2/M2



EOS_{4.0} A1/M1

EOS 4.0 – Technical data



	EOS 4.0	EOS 4.0 DUO
Lance basis height (A)	1.830 mm	1.830 mm
Operating height (B)	10.000 mm	max. 9.500 mm
Lance tube length (C)	max. 8.400 mm	max. 8.000 mm
Weight of lance tube incl. head and water module	from 60 kg	from 78 kg
Total weight	120 - 250 kg	140 - 280 kg



PERFORMANCES	EOS 4.0	EOS 4.0 DUO
Maximal snow production	69 m ³ /h	80 m ³ /h
Air consumption	195 – 360 l/min	480 – 720 l/min
Water pressure	15 – 60 bar	20 – 60 bar
Maximum water flow	6,9 l/s	8 l/s
ELECTRICAL CHARACTERISTICS		
Total input power	0 – 2 kW	0 – 4,8 kW
Voltage	220-230-380-400-440-480 V*	220-230-380-400-440-480 V*
Compressor	1,5 kW	4 kW
Heating, lights and small consumers (0 - 100%)	0 – 0,5 kW	0 – 0,8 kW
Frequency	50 – 60 Hz	50 – 60 Hz
MECHANICAL CHARACTERISTICS		
Nucleators	3	6 (2x3)
Water nozzles	3-12	18 (2x9)
Water filter	250 μm	250 μm

*Other voltages available upon request



Configuration examples EOS 4.0

A4-H / A4K-H / A8-H / A8K-H

These models with the automatic hydrant Hydrosystem or alternatively with Hydroact have the water module with built-in filter directly on the lance tube.

Particularly suitable for:

- > hybrid systems (lances and fan guns)
- > systems with high water pressure (pressure control by Hydrosystem or Hydroact)



Illustration:

EOS 4.0 A8K-H with compressor, with option display, temperature probe, LED and lift cylinder. Concrete pit C150 standard with DLE and loop-through cassette.

A2U / A4U / A4

These models have no automatic hydrant Hydrosystem and the water module with built-in filter is located directly in the pit (A4). The 'Underground' variant also has the control box in the pit (A2U, A4U).

Particularly suitable for:

- > pure lance systems with central compressed air supply



Illustration:

EOS 4.0 A4U without options. Concrete pit C150 Standard with DLE Compact.

A4-H DUO / A4K-H DUO M4K DUO / M4 DUO

These models each have two nozzle heads (total 6 nucleators and 18 water nozzles) on a single lance tube.

Particularly suitable for:

- > large snow areas (spraying angle 210°)
- > high snow production



Illustration:

EOS 4.0 A4K-H DUO with compressor, with display option, temperature probe, LED and lift cylinder. Concrete pit C150 standard with DLE and loop-through cassette.

M1 / M2 / M4 / M8 SOLID / M4K / M8K

These models are purely manual lances. However, they can also be equipped with a compressor and the corresponding control box (M4K, M8K).

Particularly suitable for:

- > systems without power supply and with central compressed air supply (SOLID lances)
- > external water hydrants



Illustration:

EOS 4.0 M4 SOLID without options. Concrete foundation with external hydrant.

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