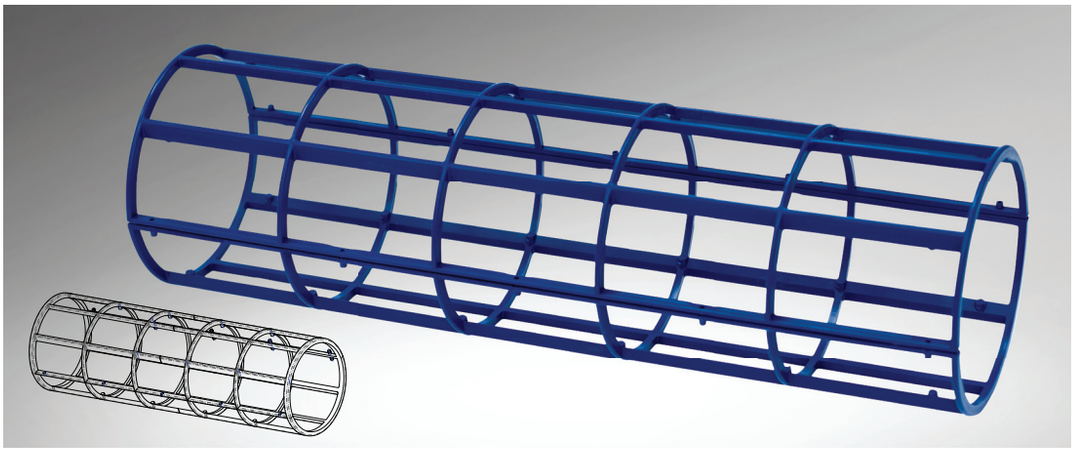
POLYAMIDE (PA) & POLYPROPYLENE (PP) DUST COLLECTOR FILTER CAGES



Apart from metal filter cages, we offer our Customers a novelty on the market: dust collector filter cages made of plastic. Produst is made of reinforced polyamide and polypropylene, have a modular structure, so it can be used in filter bags of considerable length. There is also no need to connect individual segments, although this is technically possible.

Depending on the application and the conditions in the dust filter, the production materials for plastic dust collector filter cages are polyamide and polypropylene.

Polypropylene (PP) is a material with excellent resistance to most chemicals, including acids and alkalis. PP is characterized by a low coefficient of friction and has a low density, making it relatively light.

Polyamide (PA) is characterized by exceptional mechanical strength and resistance to high temperatures and abrasion. PA has excellent vibration damping properties and is resistant to oils, greases and fuels.

WOOD INDUSTRY

FURNITURE & CARPENTRY INDUSTRY

SYNTHETIC MATERIALS INDUSTRY

FOOD & AGRICULTURE INDUSTRY

CEMENT INDUSTRY

AGGREGATES & MINING INDUSTRY

Plastic filter cages are most often used wherever high temperatures and aggressive working environments do not affect with the bag and filtration cage: in the woodworking industry, furniture and carpentry industry, in the production of transport pallets, in the plastics and packaging industry. Companies dealing in agriculture and the cement and coal industries are increasingly using this product.

MANUFACTURING MATERIAL / PHYSICAL AND CHEMICAL PROPERTIES	(PP) POLIPROPYLEN	(PA) POLIAMID
APPROPRIATE WEIGHT	0,91 g/cm3	1,14 g / cm3
CONSTANT TEMPERATURE RESISTANCE	<100 °C	200 °C
MOMENTARY TEMPERATURE RESISTANCE	130 °C	220 °C
MINERAL ACIDS RESISTANCE	very good	good
ORGANIC ACIDS RESISTANCE	very good	very good
LYE & ALKALINE COMPOUNDS RESISTANCE	very good	good
OXIDANTS RESISTANCE	good	very good
ORGANIC SOLVENTS RESISTANCE	good	good
BIOLOGICAL IMPACTS RESISTANCE	good	very good

AT CUSTOMER WISH, THE MATERIAL WHICH THE BASKET SEGMENT WILL BE MADE CAN BE DYED IN THE FOLLOWING COLORS:

DARK BLUE

GREY

BLACK

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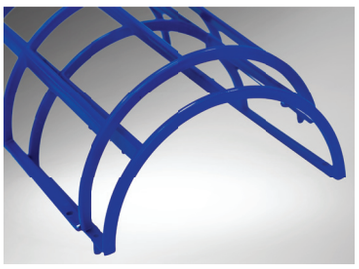
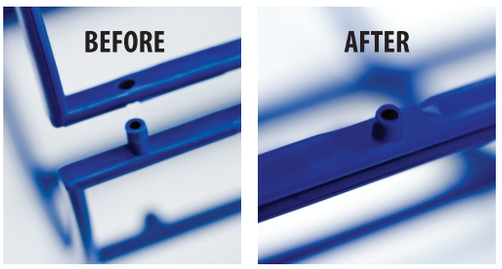


A single filter cage segment consists of two elements pressed together. Their assembly is very simple and the mounting holes fit very well.

The method of assembling two elements of a single segment is presented in the photos.



It should be noted that the plastic dust collector filter cages, despite the fact that they are made of plastic itself, are a very ecological product. Because the materials used to produce them are easy to recycle. In fact, a disassembled and used filter bag with cage can be fully recycled and reused. Ecology therefore contributes to the increase in the popularity of this product on the market.

Plastic dust collector filter cagers can be equipped with venturi collars. This solution is often used in industrial equipment. In dry air dust collectors, they generate a secondary air flow to enhance the pulsation cleaning of the filter bags.

The principle of operation of the venturi nozzle is as follows: if a narrowing occurs in a certain place of the channel where the gas mixture is moving at a certain speed, the flow speed will increase.

The Venturi nozzle is economical for long filter bags and also allows you to reduce the amount of air needed to clean the filter bags. Compressed air is usually the most expensive (energy-consuming) element in the operation of a dust collection system.

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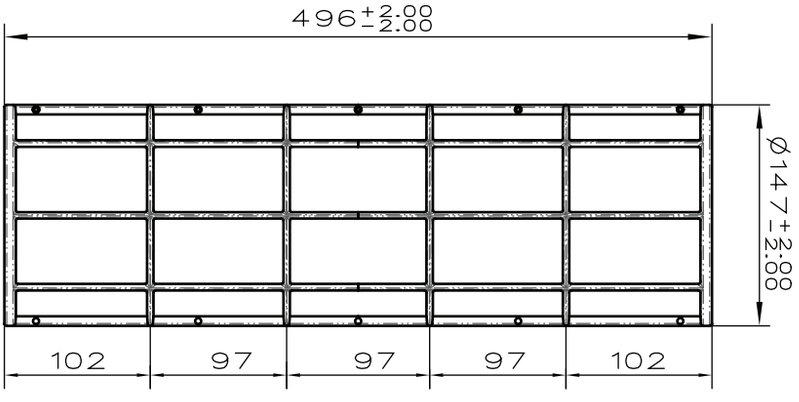
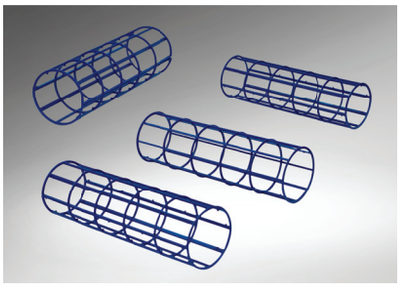
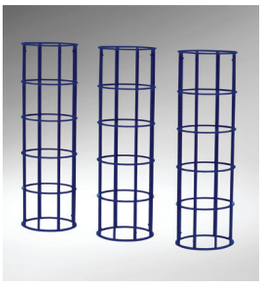
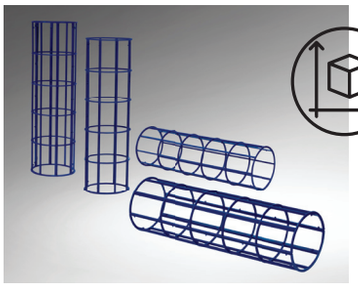
CAGE TYPE	SINGLE CAGE SEGMENT	
	DIAMETER	LENGHT
PP POLIPROPYLEN	Ø 147 mm ± 2mm	496 mm ± 2mm
PA POLIAMID	Ø 150 mm ± 2mm	505 mm ± 2mm









OVERALL DIMENSIONS & PACKING METHOD:
standard euro pallets
dimensions: 120 x 80 cm

1 pallet = 500 pieces of cages
packed in cartons
up to 200 cm high

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