

# Dust Extractors

For ultimate flexibility in extracting and filtering dust laden air

TK / TK-2.2

OM

DUSTOMAT S

DUSTOMAT-10 / 16 M

DUSTOMAT DRY

DUSTOVAC

ESTMAC D

MOBEX P

DUSTOMAT HYDRO

NA

DUSTMAC P and S

Cyclone ZA

## Industry Applications

- » Aircraft Industry
- » Automotive Repair Shops
- » Blasting Cabinets
- » Chemical Industry
- » Construction Industry
- » Dental Labs
- » Electronics Industry
- » Furniture Industry
- » Glass Production
- » Graphite Processing
- » Laboratories
- » Leather Processing
- » Machine Building Industry
- » Metalworking Industry
- » Model Building
- » Natural and Man Made Stone Processing (Stone Masons)
- » Paper Manufacturing
- » Pharmaceutical Industry
- » Plastics Processing
- » Precision Mechanical Work
- » Printing Industry
- » Recycling-Companies
- » Sandblasting Shops
- » Sawmills
- » Schools
- » Shoe Manufacturers
- » Steel Construction
- » Textile and Flocking Industry
- » Woodworking Companies



## Test Certificates



## Device overview according to harmful substances

	Dust Extractors													
	TK 4 / TK 6 / TK 2.2	OM	DUSTOMAT 100-S – 160-S	DUSTOMAT-10 / -16M	DUSTOMAT DRY	DUSTOVAC	ESTMAC D	MOBEX P	DUSTOMAT HYDRO	Wet separator NA	DUSTMAC P	DUSTMAC S	Cyclonic pre-separator ZA	
Page	9	10	11	12	14	16	17	18	20	22	23	25	26	
Aluminum dust									•	•				
Cotton fibres	•	•	•									•		
Concrete dust				•		•		•			•			
Chemical dust				•	•			•	•	•	•	•	•	
CRP-/GRP-shavings	•	•										•		
Dental dusts						•								
Pigments				•		•		•						
Moist dusts									•	•				
Flock dusts	•	•	•									•		
Lint			•									•		
Foil tinsel	•	•	•									•		
Odors														
Spice dust				•		•		•			•			
Glass dust	•	•		•		•		•			•			
Graphite powder				•		•		•			•			
Rubber and leather dust	•	•		•		•		•	•	•	•	•	•	
Plastic shavings	•	•		•		•	•	•				•	•	
Plastic dusts	•	•		•	•	•	•	•			•	•		
Sticky dust			•						•	•				
Chalk				•		•		•				•		
Flour dust				•		•		•			•			
Metal shavings	•	•		•		•	•	•				•	•	
Metal shavings (fraught emulsion)												•		
Metal dusts	•	•		•	•	•	•	•	•	•	•	•		
Mineral dusts				•		•		•			•	•		
Oil mist/aerosols														
Paper dust				•	•	•		•			•			
Scraps of paper	•	•	•									•		
Soot						•					•	•		
Welding Fume														
Stone dust				•		•		•			•	•		
Tabacco fibres				•										
Textile fibres	•	•	•									•		
Toner dust				•				•						
Cement dust				•		•		•			•	•		

This table lists only the best-known types of dust and does not claim to be complete. It serves for orientation and pre-selection of the suitable device. Before final purchase, however, you should contact the experts at ESTA, as this pre-selection should be checked again on the basis of a number of factors such as process, grain size or characteristics of the material. Service Hotline: **+49 7307 3409680-0**

## Introduction and Product Overview

### Introduction

Dust extractors play a crucial role near processing machines and in production halls. With the right type of filter, nearly all types of shavings and dusts can be separated. Dust extraction is done directly through the device's connection piece or through capture elements such as exhaust hoods or extraction arms.



### Product overview

Small dust extractors in the **TK** and **OM series** have a manually cleanable bag filter. They are mainly placed under processing machines or work-benches. Mobile dust extractors of the series **DUSTOMAT** are more economical than a central system. They are recommended when extraction points frequently change. Their compact design makes them smooth-running and flexible to use. This class includes the **DUSTOMAT-10** and **16 M**.

The compact dust extractors of the **DUSTOMAT DRY** series are suitable for almost all purposes thanks to their versatile configurations, and, among other things, effectively extract dusts that occur when processing metal and plastic (separation efficiency of up to 99.995 %).

Thanks to aerodynamic optimisation, the filters of the **DUSTOMAT DRY** series have even higher energy efficiency compared to their predecessors. The innovative filter cleaning system also offers users significant savings potential: thanks to compressed air savings of up to 50 percent and extended filter service life, follow-up costs are reduced to a minimum.

The mobile dust extractors **DUSTOMAT S** were specifically designed for the extraction of sticky and fibrous dust.

The dry dust extractors of the **ESTMAC D**-series are suitable as compact and inexpensive extraction solutions for the lower to medium performance segment. The units extract dry and free-flowing dust and offer a wide range of applications for many industries.

## Introduction and Product Overview

**MOBEX** compact dust extractors are developed for professional dust extraction. The devices have automatic filter cleaning and can be used in continuous operation.

The new wet separators of the **DUSTOMAT HYDRO** series are ideal for work processes with flying sparks, as well as for the extraction of highly flammable substances. The innovative water separation technology safely binds over 98,7 % of the extracted dusts and sparks in water, even with the smallest particle fractions of  $\geq 15 \mu\text{m}$ . The downstream dry filter system (separation efficiency up to  $\geq 99.995 \%$ ) is therefore low-wear and thus reduces follow-up costs. The filter system can be configured individually.

**NA** wet separators are especially good for extracting flying sparks or sticky dusts. These devices perform filtration through a water bath. For extracting explosive aluminium dusts, we also offer wet separators in specially tested designs.

The **DUSTMAC** series contains high-performance dust extractors that can extract from several machines at the same time through a pipe system.

**DUSTMAC** systems have a modular design, which allows later system expansion, if necessary.

The stationary **Cyclone Separator ZA** will be installed in front of the actual filter unit, for the pre-separation of dry, pourable dust.



### Easy to operate and maintain

What all these devices have in common is that they are easy to operate and maintain. This lets you focus on your work – not on extraction.

The detachable dust collection drawer and ESTA's tiltable filter housings guarantee trouble-free disposal of collected dust material.

Clear, ergonomically arranged control elements allow safe, simple handling.



Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filters/  
Air Purifier

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

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## Advantages that Pay Off

### Flexible use

Smooth-turning rollers help move ESTA mobile dust extractors to their desired location, ensuring flexible application. Mobile undercarriages are available for small and compact dust extractors. Various filter media and filter-cleaning systems allow use in nearly any application or industry. For adapting the devices optimally to local conditions, many versions are available:

- » Custom voltages
- » Sensors and actuators
- » Exhaust outlet
- » Activated carbon filters
- » Special filters
- » Pre-separators
- » Special paint treatments
- » ... and much more

### Quality and expertise

Air technology design based on decades of experience, the latest technical knowledge and scientific evaluation of empirical data are the reasons our dust extractors are ever more innovative. Investments in this area stand up to every audit.



### Quality workmanship

The high quality our customers demand ensures our dust extractors last a long time. We assure this quality standard through:

- » Highly qualified employees
- » Internal device inspection and final inspections
- » Audited production facilities
- » External device test certificates
- » Production certified per DIN EN ISO 9001:2008 from DEKRA, IFA, etc.



### A comprehensive range of accessories

So that our dust extractors can be used effectively at any extraction point, we offer a complete range of accessories:

Such as:

- » Cyclonic separators
- » Spark pre-separators
- » Pipe pre-separator
- » Hoods and extraction arms
- » Pipes, hoses and connectors

### Operating costs

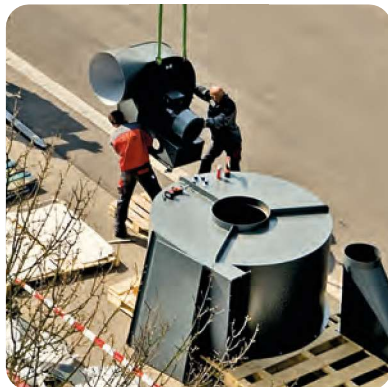
Cleanable permanent filter cartridges, precisely adapted cleaning methods and components made for continuous operation minimize failure, equipment and replacement part costs.

Productivity and economy both improve, and ESTA has one more satisfied customer.

### On-site installation

From consultation to on-site installation. We design tailor-made solutions and build them, too – the customer gets one-stop shopping.

Excellent project planning and implementation are the basis for reliable, well-functioning extraction systems.



## Mini Dust Collectors TK and TK 2.2



Mini dust collector TK

### Application Range

- » Extraction of individual workstations in industry and trade
- » For direct extraction of grinding, milling, and deburring
- » For occasional use in little amounts of dust
- » Mechanical workshops
- » Metalworking companies



### Ideal for

- Metal dust
- Metal shavings
- Plastic shavings
- ... and many more

### Special Versions

- » High efficiency filter materials for very fine dust
- » Motors in three phase or alternating current
- » Mobile unit with casters
- » Sound dampening muffler
- » Custom paint finish
- » Filtration unit only, without motor
- » Equipped with a turbine blower for applications requiring very high vacuum power (TK-2.2)



Mini dust collector TK connected to a deburring machine

ESTAPLUS

### Special Features

- » Cleanable, durable bag filter dust class M
- » Heavy duty dust collection drawer

### Your Benefits

- » Small space requirement due to compact design
- » Easy to handle
- » Low operating costs due to cleanable filter bag
- » Low maintenance

Data dependent on equipment type

### Technical Data

Model		TK-4	TK-6	TK-2.2
Max. volume flow	cfm	300	450	300
Intake opening	mm	60	80	50
Max. negative pressure	Pa	1.400	1.400	21.000
Mains voltage	V	400	400	400
Nominal power	HP	0.55	0.55	2.2
Motor speed	1/min	2.800	2.800	2.800
Dimensions (L/W/H)	mm	400 x 400 x 590	400 x 400 x 590	830 x 460 x 655
Overall depth	mm	600	600	900
Weight	kg	45	30	106
Sound pressure level	dB(A)	68	68	75
Order Number		31.041	31.061	41.033

Dust Extractors

High Vacuum Extraction Units

Welding Fume Filters

Oil Mist Separators

Carbon Filters / Air Purifier

Downdraft Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction Systems

Pipe Systems

About us

Interesting Information

## Mini Dust Collectors

### OM



Mini dust collector OM

#### Application Range

- » Intermittent or continuous duty use with moderate quantities of dust
- » Electronics industry
- » Metalworking industry
- » Surface finishing technology
- » Machine building



#### Ideal for

- Metal dust
- Metal shavings
- Plastic dust
- ... and many more

#### Special Versions

- » High efficiency filter material for very fine dust – also available with certification for dust classification M
- » Motors in three phase or alternating current
- » Custom paint finish
- » Water pre-separator for spark generating applications
- » Mobile unit with casters
- » Sound dampening muffler



OM-8 connected to a belt sanding machine

#### Special Features

- » Cleanable, durable bag filter
- » Heavy duty dust drawer

#### Your Benefits

- » Suitable for nearly all types of dust
- » Versatile in its use
- » Cleanable long life filter
- » Low operating costs due to cleanable filter bag
- » Small space requirement due to compact design

Data dependent on equipment type

#### Technical Data

Model		OM-8	OM-10	OM-12
Max. volume flow	cfm	500	600	800
Intake opening	mm	80	100	150
Height of intake connection	mm	300	300	300
Max. negative pressure	Pa	1.600	1.500	1.800
Mains voltage	V	400	400	400
Nominal power	HP	0.55	0.55	1.10
Dimensions (L/W/H)	mm	550 × 550 × 1.120	550 × 550 × 1.120	550 × 550 × 1.120
Overall depth	mm	670	670	670
Weight	kg	65	65	70
Sound pressure level	dB(A)	65	66	72
Order Number		21.081	21.101	21.122

## Mobile Dust Extractors

### DUSTOMAT S Series



DUSTOMAT S

#### Application Range

- » Specialized dust extractor for sticky dust and dust containing long fibres
- » Textile and flocking industry



#### Ideal for

- Flock dusts
- Foil tinsel
- Sticky dust
- Textile fibres
- Cotton dust
- ... and many more



DUSTOMAT 160-S in OEM-version for dust extraction on a manual flocking workstation

#### ESTA PLUS

#### Special Features

- » Fabric filter element with primary paper filter bag

#### Your Benefits

- » Compact design with high extraction performance
- » Easily replaceable paper filter bag to collect the dust

Data dependent on equipment type

#### Technical Data

DUSTOMAT		100-S	120-S	140-S	160-S
Max. volume flow	cfm	720	1,060	1,330	1,850
Intake opening	mm	100	125	140	160
Max. negative pressure	Pa	2.800	3.250	3.800	4.600
Mains voltage	V	230/400	400	400	400
Nominal power	HP	1.3/1.1*	2.2	3.0	3.0
Main filter surface	m²	0.75	1	1	1
Collection volume	l	100	200	200	200
Dimensions (L/W/H)	mm	1.075 x 530 x 1.075	1.653 x 782 x 1.353	1.653 x 782 x 1.353	1.653 x 782 x 1.373
Weight	kg	70	190	200	200
Sound pressure level	dB(A)	71	68	69	73

#### Order Number

Model	230 V	09.500	–	–	–
Model	400 V	09.497	09.502	09.504	09.506

\* 400V-model

Dust Extractors

High Vacuum Extraction Units

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Oil Mist Separators

Carbon Filters/Air Purifier

Downdraft Tables

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# Dust Extractors

## Mobile Dust Extractors *DUSTOMAT-10*



DUSTOMAT-10

### Application Range

- » Dust extraction of individual machines and manual workstations
- » Pourable dust types – including hazardous types of dust



### Ideal for

- Metal shavings
- Plastic dust
- Pigments
- Tabacco fibres
- Paper dust
- Metal dust
- ... and many more



DUSTOMAT-10 with accessories for floor clean up

### ESTAPLUS

#### Special Features

- » Brush cleaning method (manually)
- » Cleanable long life cartridge filters (Dust classification M)

#### Your Benefits

- » Low operating costs resulting from cleanable long life filter cartridges
- » Mobility combined with high extraction performance
- » Tilt-back filter housings for easy dust disposal
- » Suitable for most types of dust

Data dependent on equipment type

#### Technical Data

DUSTOMAT-		10
Max. volume flow	cfm	720
Intake opening	mm	100
Max. negative pressure	Pa	2.800
Mains voltage	V	230/400
Nominal power	HP	1.3/1.1*
Main filter surface	m²	3.5
Dimensions (L/W/H)	mm	1.165 x 530 x 1.636
Weight	kg	120
Sound pressure level	dB(A)	73
Order Number		
Manual filter cleaning	(230 V)	09.201
Manual filter cleaning	(400 V)	09.215

\* 400V-model

## Mobile Dust Extractors *DUSTOMAT-16 M*



DUSTOMAT-16 M with extraction arm

### Application Range

- » Dust extraction of individual machines and manual workstations
- » Especially designed for extracting mineral dusts at changing workstations in the stone industry

### Special Versions

- » ATEX version (16 M)

### Accessories

Special accessories for the DUSTOMAT series, such as extraction arms, floor cleaning set, various nozzles, pre-separators, etc. for the DUSTOMAT series can be found in our accessories catalogue.



### Ideal for

- Stone dust
- Mineral dusts
- Spice dusts
- Organic dusts
- Chemical dusts
- ... and many more



DUSTOMAT-16 M  
– direct extraction of fine stone dust

### Special Features

- » Two filter cleaning methods:
  - pulse jet cleaning method
  - pneumatic filter cleaning
- » Cleanable long life cartridge filters (Dust classification M)

### Your Benefits

- » Low operating costs resulting from cleanable long life filter cartridges
- » Mobility combined with high extraction performance
- » Tilt-back filter housings for easy dust disposal
- » Suitable for most types of dust

Data dependent on equipment type

### Technical Data

DUSTOMAT-		16 M
Max. volume flow	cfm	1.140
Intake opening	mm	125
Max. negative pressure	Pa	2.000
Mains voltage	V	230/400
Nominal power	HP	1.3/1.1*
Main filter surface	m <sup>2</sup>	9.4
Dimensions (L/W/H)	mm	1.150 × 670 × 1.470
Weight	kg	110
Sound pressure level	dB(A)	77
Order Number		
Pneumatic filter cleaning	(230 V)	09.420
Pneumatic filter cleaning	(400 V)	09.421
Pulse jet filter cleaning	(400 V)	09.422
ATEX version	(400 V)	09.423

\* 400V-model

**NEW**

Mobile Dust Extractors

**DUSTOMAT DRY**



DUSTOMAT DRY

**ESTAPLUS**

## Special Features

- » Available in four output levels
- » Variable cleaning system, depending on the application
- » 50% compressed air savings thanks to innovative jet pulse filter cleaning system
- » Integrated impact separator for pre-separation of coarse and heavy particles

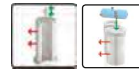
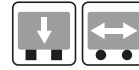
## Your Benefits

- » Configurable: extraction power, filter package and system design
- » Strong extraction power for optimal extraction results
- » Aerodynamically optimised design for efficient air flow, resulting in low operating costs
- » Low-noise system operation
- » Recirculation/exhaust air operation possible
- » Compact design
- » Mobile dust collection drawer for easy disposal
- » Sturdy, durable steel construction
- » Intuitive operation via a convenient touch display
- » High level of operation and maintenance friendliness

Data dependent on equipment type

## Application Range

- » Extraction of dry and free-flowing dusts and chips
- » Depending on the design, can also be used for carcinogenic, flammable or explosive media
- » Suitable for many applications, also for flying sparks
- » Single and multi-user extraction for industry and commerce
- » For direct extraction at processing machines
- » For connection to extraction arms, extraction tables, extraction hoods as well as shorter pipe systems



## Ideal for

- Metal dust
- Metal filings
- Chemical dust
- CFK/GFK-dust
- Lint
- ... and many more

## Special Versions

- » ATEX design
- » Pre-separator for sparks, chips and dusts
- » HEPA H 14 filter (separation efficiency up to 99.995%)
- » Downstream activated carbon filter for odour neutralisation
- » Version with frequency converter
- » Stationary version
- » Version with exhaust air connection piece
- » Variable positioning of intake connection piece, touch display, control cabinet, etc.
- » Other versions on request



The small space requirement and the low operating noise of the deduster allow installation directly in the work area.

**NEW**

## Mobile Dust Extractors *DUSTOMAT DRY*



### Technical Data

DUSTOMAT DRY		2000	2700	3300	3500
Max. volume flow	cfm	2,000	2,700	3,100	3,500
Max. negative pressure	Pa	2,400	2,900	3,400	4,500
Intake opening	mm	160	180	200	200
Mains voltage	V	400	400	400	400
Nominal power	kW	2.2	3.0	4.0	5.5
Circuit breaker	A	C16	C16	C16	C16
Compressed air connection	Inch	3/4"	3/4"	1/4"	1/4"
Main filter quantity	Piece	2	2	2	2
Main filter surface	m²	10	10	20	20
Collection volume	l	50	50	50	50
Dimensions (L/W/H)	mm	1,630 × 840 × 1,430	1,630 × 840 × 1,430	1,630 × 840 × 1,680	1,630 × 840 × 1,680
Weight	kg	300	300	330	330
Sound pressure level	dB(A)	66	68	71.5	75
<b>Order Number</b>					
Standard		<b>X09700</b>	<b>X09701</b>	<b>X09702</b>	<b>X09703</b>



High vacuum dust extractor

## DUSTOVAC



DUSTOVAC

### Application Range

- » Single and multiple-placedust-extraction in industry and trade
- » Free-flowing dust
- » Dry chips



### Ideal for

- Concrete dust
- CFRP / GFRP dust
- Colour pigments
- Plastic chips
- Plastic dust
- Metal chips
- Metal dust
- Mineral dust
- Stone dust
- ... and many more



Applying DUSTOVAC

### Special features

- » Two filter cleaning methods: manual and jet-cleaning
- » Cleanable permanent filter-cartridges (dust class M)

### Your benefits

- » High suction power for point-exact extraction with handheldpowertools
- » Low operating costs
- » Low-noise and usable in multi-layer operations
- » Patented tiltable filter housing for easy disposal of grouped goods
- » Suitable for almost all kinds of dust
- » Collection volume 200 litres

Data dependent on equipment type

### Technical Data

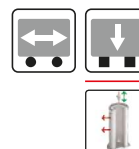
DUSTOVAC		5.5	7.5	13.0
Max. volume flow	cfm	480	850	1.100
Intake opening	mm	70	100	125
Max. negative pressure	Pa	24.500	25.000	22.000
Mains voltage	V	400	400	400
Nominal power	HP	5.5	7.5	13.0
Main filter surface	m <sup>2</sup>	9.6	9.6	9.6
Dimensions (L/W/H)	mm	1.830 × 782 × 2.040	1.830 × 782 × 2.040	1.830 × 782 × 2.040
Weight	kg	230	334	390
Sound pressure level	dB(A)	68	77	79
Order Number				
Manual filter cleaning		83.109	83.103	83.104
Pulse-jet filter cleaning		83.112	83.107	83.108

## Compact dust extractor *ESTMAC D*



### Application Range

- » Single and multi-user extraction of free-flowing and dry dust
- » Suitable for many applications
- » For direct suction on processing machines
- » For connection to collection hoods, extraction arms and smaller pipe systems



### Ideal for

- Cuttings
- Metal dust
- Plastic dust
- Chipped plastics
- Dirt and chips
- ... and many more

### Special versions/accessories

- » Afterfilter cassette (dust class H)
- » Pre-separator for sparks, chips and dust
- » Activated carbon filter
- » Mobile version
- » Special enamel

### ESTAPLUS

### Special features

- » Available in two power levels
- » Integrated impact separator for pre-separation of coarse and heavy particles
- » Cleaning by means of manual rotation nozzle

### Benefits for you

- » Strong suction power in combination with compact utility space
- » Innovative device design ensures efficient air flow guidance, thus low operating and follow-up costs
- » Low operating noise; can, therefore, be installed directly in the working area
- » Mobile dust collection drawer for easy disposal
- » Robust processing of steel sheet for a long service life
- » High operating and maintenance friendliness

Data depending on model version



### Technical Data

ESTMAC D		1500	1800
Max. volume flow	cfm	1.500	1.800
Intake opening	mm	160	160
Max. negative pressure	Pa	2.040	2.650
Mains voltage	V	400	400
Nominal power	HP	1.1	2.2
Main filter surface	m²	7.5	15
Main filter quantity	Piece	1	2
Collection volume	l	40	40
Dimensions (L/W/H)	mm	710 x 790 x 1.690	710 x 790 x 1.690
Weight	kg	170	180
Sound pressure level	dB(A)	71	73
Order Number		099.150	099.180

## Compact Extractor *MOBEX P*



MOBEX P-24

**ESTAPLUS**

### Special Features

- » Innovative sandwich-panel housing design
- » Pre-separation system with integrated impact separator on the raw gas inlet
- » Jet pulse cleaning
- » A new disposal system with lockable dust collection cartons (tested by the IFA)
- » Optional: Mobile version available

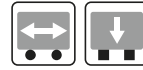
### Your Benefits

- » High suction performance
- » Low operating costs thanks to cleanable permanent filter
- » Long filter life due to a pre-separation system
- » Low operating noise thanks to a sound-insulated housing
- » Small space requirement due to compact design
- » Easy, dust-free removal of collected material through a new disposal system

Data dependent on equipment type

### Application Range

- » Universal use for dusts and shavings in the metal and plastics industries and many others
- » Single- or multiple-location extraction at machines that produce dust or shavings, or at welding stations
- » Polishing workplaces, for example in the shoe industry, instrument making, etc.



### Ideal for

- Metal dust
- Metal shavings
- Plastic shavings
- Plastic dust
- ... and many more



Product-Video

### Special Versions

- » Special filter materials
- » Special voltage
- » Pipe pre-separator
- » Exhaust air connection
- » ATEX version
- » Test certificate H



The MOBEX-dust extractors can also be used in combination with an ESTA Extraction table.



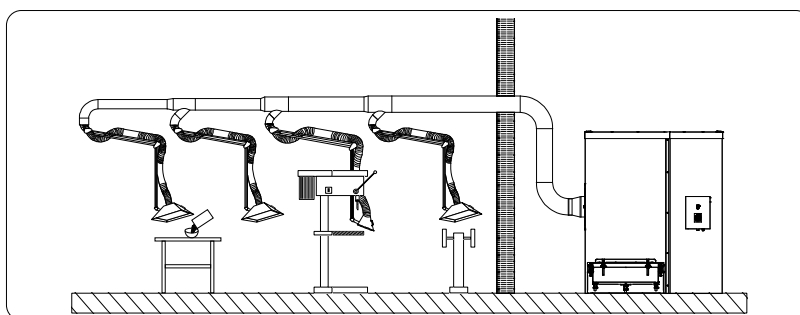
MOBEX P-24 at a milling machine

## Compact Extractor *MOBEX P*

**ESTA Control** is the specially developed device control that ensures energy-efficient device operation. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.



The detachable dust collection drawer with lockable cartons ensures simple, dust-free disposal.



With pipelines, the MOBEX series can be used for simultaneous extraction at multiple workstations.

### Technical Data

MOBEX		P-24	P-36	P-50
Max. volume flow	cfm	3.300	4.500	5.600
Intake opening	mm	200	250	280
Max. negative pressure	Pa	3.400	3.400	3.300
Mains voltage	V	400	400	400
Nominal power	HP	3.0	4.0	4.0*
Main filter quantity	Piece	2	3	4
Main filter surface	m <sup>2</sup>	24	36	48
Collection volume	l	100–150 (2×38**)	100–150 (2×38**)	100–150 (2×38**)
Dimensions (L/W/H)	mm	1.910×1.040×2.035***	2.030×1.040×2.035***	2.030×1.040×2.030***
Weight	kg	310	350	415
Sound pressure level	dB(A)	71	74	77
Order Number				
Standard		09.831	09.832	–
Tested to dust class H		09.833	09.834	–
ATEX version		09.840	09.841	–

\* Different impeller \*\* with dust collection box \*\*\* without spark trap



**NEW**

Wet separator

**DUSTOMAT HYDRO**



## Application Range

- » Single and multi-station extraction for industry and trade
- » Extraction of metallic dusts that produce flying sparks
- » Suitable for machining high-alloy and unalloyed steels as well as titanium and aluminium (DGUV 109-001)
- » Suitable for extracting explosive materials (ATEX-compliant)
- » As a central extraction unit with collecting pipe and several extraction points



## Ideal for

- Metal dust
- Stainless steel dust
- Aluminium dust
- Titanium dusts
- Cuttings
- ... and many more

## Specialized Models and Options

- » ATEX-compliant design
- » Sound insulation package
- » Selectable filter media
- » Variable position of the intake manifold

**ESTAPLUS**

## Special Features

- » Innovative water separation technology (separation efficiency > 98.7 % – even with the smallest particle size of 15 µm)
- » Configurable filter system (up to 4 filter stages possible)
- » Optional HEPA H 14 filter (separation efficiency ≥ 99.995 %) for carcinogenic substances
- » Automatic water filling monitored by sensors

## Your Benefits

- » Strong extraction power combined with maximum efficiency
- » Safe solution for flying sparks
- » High separation efficiency thanks to multi-stage filtration
- » Compact design
- » Low-noise system operation
- » Economical energy and water consumption
- » Recirculation/exhaust air operation possible
- » Easy to operate and maintain
- » Low running costs

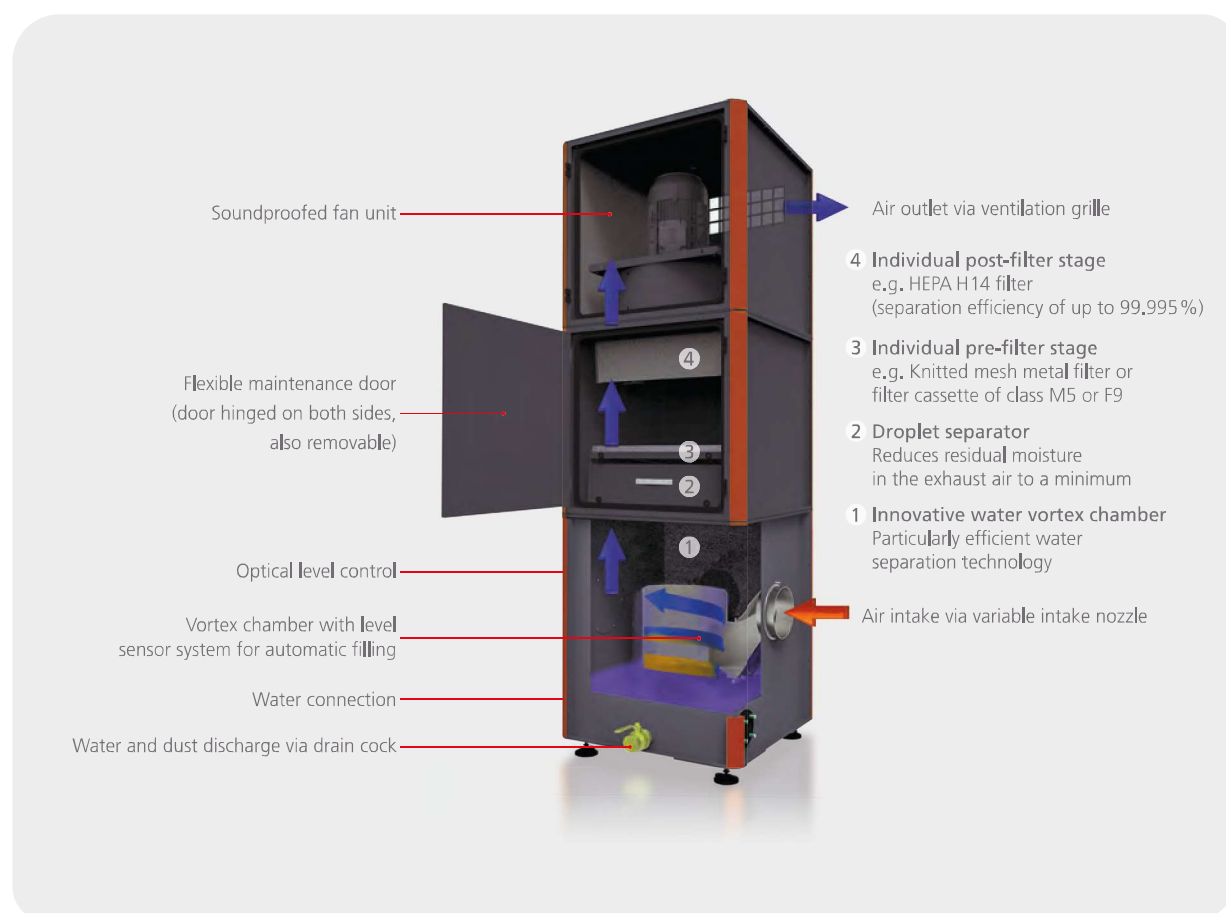
Data dependent on equipment type



**NEW**

Wet separator

*DUSTOMAT HYDRO*



## Technical Data

DUSTOMAT HYDRO		2300	3500	6000	10000
Max. volume flow	cfm	2,300	3,500	6,000	10,000
Max. negative pressure	Pa	2,500	3,400	3,950	4,800
Connection diameter	mm	180	224	280	400
Nominal power	HP	3.0	5.5	7.5	15.0
Water connection	Zoll	3/4	3/4	3/4	3/4
Dimensions (L/W/H)	mm	850 × 850 × 2,600	850 × 850 × 2,600	1,350 × 1,550 × 3,400	1,350 × 1,550 × 3,400
Weight	kg	340	380	750	870
Sound pressure level	dB(A)	70.0	72.0	73.4	76.1
<b>Order Number</b>		<b>X45900</b>	<b>X45900</b>	<b>X45900</b>	<b>X45900</b>
Standard		X45900	X45900	X45900	X45900

## Wet Separators

### NA-1.1 / NA-2.2 SK



Wet Separator NA-500

#### Application Range

- » Extraction of sticky substances and dusts
- » Spark generating production processes
- » Extraction of flammable, explosive and dry substances defined as "Zone22" types of dust (ATEX version)



#### Ideal for

- Metal dust
- Sticky dust
- Flammable dusts
- ... and many more

#### Special Versions

- » As a pre-separator for existing dust extractor (NA-500)
- » As vacuum unit (NA-2.2)
- » Stainless steel housing
- » ATEX-approved version
- » Magnetic valve for automatic water supply



Tilt-back upper housing for easy access to the interior of the unit

## ESTA PLUS

#### Special Features

- » Three different versions for mobile wet separation
- » Droplet separator and filter cartridge of dust classification M

#### Your Benefits

- » Tilt-back upper housing for easy dust disposal
- » Small space requirement due to compact design
- » Minimum water consumption

Data dependent on equipment type

#### Technical Data

NA		-1.1 Dust Extractor	-2.2 Vacuum unit
Max. volume flow	cfm	560	300
Intake/outlet diameter	mm	100/-	50/-
Max. negative pressure	Pa	1.700	21.000
Nominal power	HP	1.1	2.2
Water capacity	l	40	40
Collection container	l	100	100
Dimensions (L/W/H)	mm	1.310 × 530 × 1.560	1.260 × 630 × 1.560
Weight (without Water)	kg	120	130
Sound pressure level	dB(A)	78	68
<b>Order Number</b>			
Standard version		<b>45.511</b>	<b>45.512</b>
Stainless steel version		<b>45.611</b>	<b>45.612</b>
ATEX version		-	<b>45.712</b>

## Modular Dust Extractors

### *DUSTMAC P (Cartridge Filters)*



DUSTMAC P (with cartridge filters)

#### Application Range

- » Central extraction of multiple dust generating machines
- » Suitable for dry, pourable types of dust



#### Ideal for

- Chemical dust
- CRP-/GRP-dusts
- CRP-/GRP-shavings
- Metal dust
- Mineral dust
- Stone dust
- ... and many more

#### Special Versions

- » Special filter materials
- » Custom paint finish
- » Fan with various capacities
- » Coating for outdoor installation
- » Pipe pre-separator
- » Pre-separator
- » ATEX version



The DUSTMAC series is also suitable for outdoor installation

ESTAPLUS

#### Special Features

- » Pulse-jet filter cleaning system
- » Integrated Pre-separator
- » Cleanable long life cartridge filters (Dust classification M)

#### Your Benefits

- » Suitable for most types of dust
- » Low operating costs due cleanable filter cartridges
- » Modular design (expandable)
- » Customer specific design

Data dependent on equipment type

#### Technical Data

DUSTMAC		P-20	P-40	P-60	P-90	P-144
Max. volume flow	cfm	ca. 2.600	ca. 4.500	ca. 7.800	ca. 9.700	ca. 15.000
Intake/outlet diameter	mm	160/280	224/355	280/300	355/450	450/560
Max. negative pressure	Pa	2.000	3.200	3.800	3.800	5.050
Mains voltage	V	400	400	400	400	400
Nominal power	HP	2.2	4.0	5.5	7.5	15.0
Main filter surface	m²	20	40	60	90	144
Main filter quantity	Pieces	2	4	6	9	9
Collection volume	l	100	100	100	100	100
Dimensions (L/W/H)	mm	1.310 x 1.055 x 3.250	1.310 x 1.300 x 3.295	1.750 x 1.300 x 3.740	1.900 x 1.880 x 3.770	1.730 x 1.810 x 4.010
Sound pressure level	dB(A)	67	73	78	83	83
Order Number		661.020	661.040	661.060	661.090	661.144

Dust Extractors

High Vacuum  
Extraction Units

Welding Fume  
Filters

Oil Mist  
Separators

Carbon Filters/  
Air Purifier

Downdraft  
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction  
Systems

Pipe Systems

About us

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# Dust Extractors

## Modular Extractors

### *DUSTMAC S (Tubular Bag Filters)*



DUSTMAC S (with tubular bag filters)

#### Application Range

- » Central extraction of multiple industrial dust generating work-stations or machines
- » Suitable for fine, fibrous and sticky types of dust



#### Ideal for

- Cotton dust
- Chemical dust
- CRP-/GRP-dusts
- Flock dust
- Plastic dust
- Chalk
- Metal shavings
- Paper strips
- Soot
- Cement dust
- ... and many more

#### Special Versions

- » Special filter materials
- » Custom paint finish
- » Fan with various capacities
- » Coating for outdoor installation
- » Pre-Separator
- » ATEX-approved version optional



Central extraction systems with two DUSTMAC S filter modules each

**ESTA**PLUS

#### Special Features

- » Pulse-jet filter cleaning system
- » Cleanable long life tubular bag filters for dust classification M

#### Your Benefits

- » Low operating costs due cleanable filter cartridges
- » Modular design (expandable)
- » Customer specific design

Data dependent on equipment type

#### Technical Data

DUSTMAC		S-5	S-10	S-17	S-25	S-33
Max. volume flow	cfm	ca. 2.600	ca. 3.500	ca. 4.500	ca. 5.400	ca. 9.700
Intake/outlet diameter	mm	160/280	200/300	224/355	280/400	355/400
Max. negative pressure	Pa	2.000	2.600	3.200	3.200	3.800
Mains voltage	V	400	400	400	400	400
Nominal power	HP	2.2	3.0	4.0	5.5	7.5
Main filter surface	m²	5	10.5	17	25	33
Hoses	Pieces	13	20	32	48	48
Collection volume	l	50	50	50	50	50
Dimensions (L/W/H)	mm	1.400 × 1.055 × 3.465	1.400 × 1.310 × 3.470	1.820 × 1.310 × 3.875	1.820 × 1.750 × 3.990	1.880 × 1.750 × 4.400
Sound pressure level	dB(A)	67	69	74	76	82

**Order Number** 662.005 662.010 662.017 662.025 662.033

Additional informations about the modular extractor DUSTMAC can be found beginning on page 82

## Cyclone Pre-Separators ZA



Cyclone Pre-Separator ZA

### Application Range

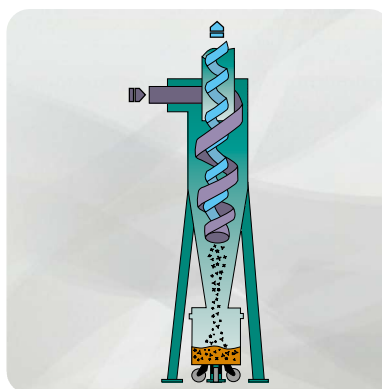
- » Can be used as primary filtration unit or pre-separator unit
- » For dry, pourable types of dust

Because we at ESTA are convinced of the effectiveness of our cyclone geometry, we issue an "extraction guarantee declaration".



### Ideal for

- CRP- /GRP-dusts
- Chemical dust
- Rubber and leather dust
- Wood shavings
- Plastic shavings
- Metal shavings
- ... and many more



Schematic description of product mechanics



Cyclone pre-separator ZA-160 application photo

ESTA PLUS

### Special Features

- » Collection volume available in different sizes
- » Different discharge methods (sluices, rotary valve)
- » As steel, stainless steel or aluminum version available
- » Coating for outdoor installation

### Your Benefits

- » Optimal solution for extracting medium sized and coarse dust
- » Can be combined ideally with other ESTA dust extractors
- » Extraction guarantee declaration for your type of dust

Data dependent on equipment type

### Technical Data

Cyclone pre-separator	Intake connection mm	Airflow volume Intervall cfm	Collection container Liter	Height of cyclone mm	Order Number
ZA 50	50	-200	50	1.458	20820050
ZA 100	100	-800	100	2.280	20821100
ZA 125	125	-1.100	100	2.596	20821125
ZA 140	140	-1.200	100	2.578	20821140
ZA 160	160	-2.000	100	2.924	20821160
ZA 200	200	-2.500	100	3.166	20821200
ZA 225	225	-3.700	200	4.128	20822225
ZA 250	250	-4.500	200	4.399	20822250
ZA 280	280	-6.000	200	4.823	20822280
ZA 300	300	-6.500	200	5.086	20822300
ZA 315	315	-7.500	200	5.278	20822315
ZA 355	355	-9.300	200	5.735	20822355
ZA 450	450	-12.500	200	6.449	20822450

The sound level rating depends on the type of fan installed in the equipment

Dust Extractors

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