

**ESTA**

THE WORLD OF EXTRACTION



# — ACCESSORIES CATALOGUE —

ACCESSORIES CATALOGUE

2023

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**Custom-fit, solid, durable.**

## High-performance accessories for ESTA Extraction Technology

With over 45 years of experience in design and supply of filtration equipment, we understand the need for high-performance accessories for use with ESTA equipment. Our accessories enable you to customize ESTA systems to your individual requirements and are also suitable for use with many other leading brands, please contact us to discuss your requirements.

All accessory products are manufactured and stringently tested to comply with all current manufacturing & safety standards.



Our general terms and conditions apply – you can find these on page 120 of this accessories catalogue.  
The prices are valid from 1<sup>st</sup> March 2023. All prices in EURO.  
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**ESTA Apparatebau GmbH & Co. KG**  
Gotenstraße 2–6  
89250 Senden, Germany

Telephone +49 (0) 7307 3409680-8  
Fax +49 (0) 7307 804-500  
E-Mail [info@esta.com](mailto:info@esta.com)

[www.esta.com](http://www.esta.com)



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Benedikt Mühlhauser  
Area Sales Manager

[b.muehlhauser@esta.com](mailto:b.muehlhauser@esta.com)



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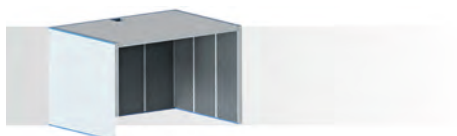
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Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

# 1 Extraction arms



ESTA extraction arms capture welding and soldering fumes, gases, vapours and dust directly at the source and can be connected to fans or to a central extraction system via a pipeline.

With mounting options on the wall, ceiling, floor or directly on the device, they have a versatile range of applications. Gas springs ensure that the extraction arms can be easily brought to any desired position within their reach.

The exterior support structure ensures that the air flow inside of the extraction arm is not obstructed and that an effective extraction can be achieved. Depending on the application, ESTA extraction arms are available with different extraction hoods, hoses and in many nominal diameters and ranges.



Extraction arms with square plastic hoods for effective collection of smoke gases



Extraction arms with square hoods are ideally suited for large-scale extraction



Extraction arms with oval hoods for precise capture of smoke and dust

The extraction arms are delivered already fully assembled. The advantage for you here is the avoidance of error sources and the shortening of assembly times.

## Application

- » For connecting to extraction systems and fans for precise capture of dust and smoke sources

## Special features

- » Available nominal diameters from DN 50 mm – DN 200 mm
- » Length: 1.5 m – 8.0 m
- » Large capture radii
- » Absolutely maintenance-free
- » Robust designs
- » External support structure
- » Gas pressure springs for ease of movement

## Benefits

- » Wide range of nominal diameters and sizes
- » High flexibility
- » Easy handling
- » Precision capturing

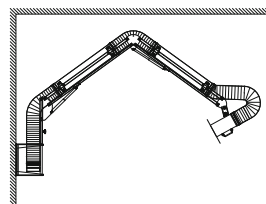


Extraction arm with oval hood for a grinding application

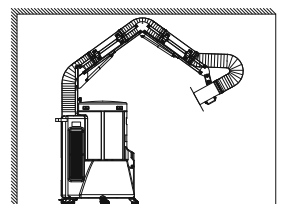


The mobile ESTA welding fume filter SRF K-15 with two extraction arms with square hood and plastic hood

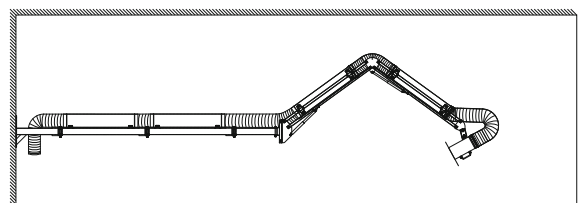
## Examples of mounting



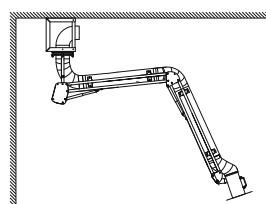
Wall bracket



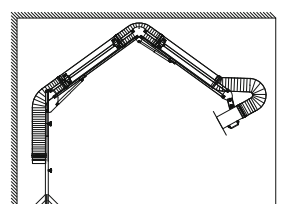
Fixing to the filter unit with a standpipe



Wall bracket with boom



Ceiling/Wall bracket with ball-joint extraction arm



Standpipe with ground level device

# 1 Extraction arms

## 1.1 Extraction arms with oval hoods



Ø mm	Length m	Art. no.	Price €
50	1.5	50152 S/W	790.00
50	2.0	50202 S/W	640.00
50	3.0	50302 S/W	740.00
70	1.5	70152 S/W	850.00
70	2.0	70202 S/W	760.00
70	3.0	70302 S/W	810.00
80	1.5	80152 S/W	910.00
80	2.0	80202 S/W	800.00
80	3.0	80302 S/W	870.00
100	1.5	10152 S/W	980.00
100	2.0	10202 S/W	830.00
100	3.0	10302 S/W	880.00
100	4.0	10.4024 S/W	1,330.00
100	4.0*	10402 W	1,330.00
100	5.0*	10502 W	1,540.00
100	6.0**	10602 W	1,720.00
100	8.0***	10.8024 W	3,530.00
125	1.5	12152 S/W	880.00
125	2.0	12202 S/W	890.00
125	3.0	12302 S/W	920.00
125	4.0	12.4024 S/W	1,290.00
125	4.0*	12402 W	1,230.00
125	5.0*	12502 W	1,550.00
125	6.0**	12602 W	1,740.00
125	8.0***	12.8024 W	3,580.00
140	1.5	14152 S/W	890.00
140	2.0	14202 S/W	910.00
140	3.0	14302 S/W	950.00
140	4.0	14.4024 S/W	1,310.00
140	4.0*	14402 W	1,380.00
140	5.0*	14502 W	1,500.00
140	6.0**	14602 W	1,750.00
140	8.0***	14.8024 W	3,600.00
150	1.5	15152 S/W	980.00
150	2.0	15202 S/W	1,000.00
150	3.0	15302 S/W	1,060.00
150	4.0	15.4024 S/W	1,360.00
150	4.0*	15402 W	1,360.00
150	5.0*	15502 W	1,530.00
150	6.0**	15602 W	1,770.00
150	8.0***	15.8024 W	3,650.00

Please specify required type of mounting



S = standpipe

W = wall bracket

From 4.0m extension with boom  
only possible with wall bracket

\* including 2.0m boom – \*\* including 3.0m boom – \*\*\* including 4.0m boom

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems



Post-filters

Spiral seam pipes/  
steel pipes





# 1 Extraction arms

## 1.1 Extraction arms with oval hoods (continued)

	Ø mm	Length m	Art. no.	Price €
	160	1.5	16152 S/W	1,080.00
	160	2.0	16202 S/W	1,090.00
	160	3.0	16302 S/W	1,130.00
	160	4.0	16.4024 S/W	1,390.00
	160	4.0*	16402 W	1,450.00
	160	5.0*	16502 W	1,560.00
	160	6.0**	16602 W	1,810.00
	160	8.0***	16.8024 W	3,760.00
	180	1.5	18152 S/W	1,080.00
	180	2.0	18202 S/W	1,110.00
	180	3.0	18302 S/W	1,220.00
	180	4.0*	18402 W	1,490.00
	180	5.0*	18502 W	1,620.00
	180	6.0**	18602 W	1,890.00
	200	2.0	20202 S/W	1,290.00
	200	3.0	20302 S/W	1,400.00
	200	4.0*	20402 W	1,660.00
	200	5.0*	20502 W	1,790.00
	200	6.0**	20602 W	2,060.00

**Please specify required type of mounting**



 S = standpipe

 W = wall bracket

From 4.0m extension with boom only possible with wall bracket







\* including 2.0m boom – \*\* including 3.0m boom – \*\*\* including 4.0m boom

## 1.2 Extraction arms with PU hose and oval hoods

	Ø mm	Length m	Art. no.	Price €
	70	1.5	701529 S/W	700.00
	70	2.0	702029 S/W	740.00
	70	3.0	703029 S/W	780.00
	80	1.5	801529 S/W	820.00
	80	2.0	802029 S/W	850.00
	80	3.0	803029 S/W	880.00
	100	1.5	101529 S/W	820.00
	100	2.0	102029 S/W	850.00
	100	3.0	103029 S/W	890.00
	100	4.0	1040249 S/W	1,200.00
	100	4.0*	104029 W	1,240.00
	100	5.0*	105029 W	1,520.00
	100	6.0**	106029 W	1,630.00

# 1 Extraction arms

## 1.2 Extraction arms with PU hose and oval hoods (continued)

	Ø mm	Length m	Art. no.	Price €
	125	1.5	121529 S/W	910.00
	125	2.0	122029 S/W	930.00
	125	3.0	123029 S/W	960.00
	125	4.0	1240249 S/W	1,250.00
	125	4.0*	124029 W	1,300.00
	125	5.0*	125029 W	1,550.00
	125	6.0**	126029 W	1,680.00
	140	1.5	141529 S/W	930.00
	140	2.0	142029 S/W	960.00
	140	3.0	143029 S/W	980.00
	140	4.0	1440249 S/W	1,300.00
	140	4.0*	144029 W	1,330.00
	140	5.0*	145029 W	1,590.00
	140	6.0**	146029 W	1,700.00
	150	1.5	151529 S/W	1,030.00
	150	2.0	152029 S/W	1,040.00
	150	3.0	153029 S/W	1,110.00
	150	4.0	1540249 S/W	1,350.00
	150	4.0*	154029 W	1,410.00
	150	5.0*	155029 W	1,630.00
	150	6.0**	156029 W	1,750.00
	160	1.5	161529 S/W	1,130.00
	160	2.0	162029 S/W	1,160.00
	160	3.0	163029 S/W	1,190.00
	160	4.0	1640249 S/W	1,400.00
	160	4.0*	164029 W	1,530.00
	160	5.0*	165029 W	1,660.00
	160	6.0**	166029 W	1,900.00
	180	1.5	181529 S/W	1,220.00
	180	2.0	182029 S/W	1,230.00
	180	3.0	183029 S/W	1,350.00
	180	4.0*	184029 W	1,810.00
	180	5.0*	185029 W	1,910.00
	180	6.0**	186029 W	2,110.00
	200	2.0	202029 S/W	1,400.00
	200	3.0	203029 S/W	1,490.00
	200	4.0*	204029 W	1,820.00
	200	5.0*	205029 W	1,950.00
	200	6.0**	206029 W	2,250.00

Please specify required type of mounting



S = standpipe



W= wall bracket

From 4.0m extension with boom  
only possible with wall bracket

\* including 2.0m boom – \*\* including 3.0m boom  
Other versions on request

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

# 1 Extraction arms

## 1.3 Ball-joint extraction arms with oval hoods



Ø mm	Length m	Art. no.	Price €
------	----------	----------	---------

### 360° swivelling

with gas pressure shock absorbers and ball-joint for ceiling or wall mounting

80	2.0	80202D	1,640.00
80	3.0	80302D	1,750.00
100	2.0	10202D	1,660.00
100	3.0	10302D	1,770.00
100	4.0	10402D	2,030.00
125	2.0	12202D	1,700.00
125	3.0	12302D	1,800.00
125	4.0	12402D	2,070.00
140	2.0	14202D	1,730.00
140	3.0	14302D	1,830.00
140	4.0	14402D	2,100.00
150	2.0	15202D	1,800.00
150	3.0	15302D	1,860.00
150	4.0	15402D	2,140.00
160	2.0	16202D	1,820.00
160	3.0	16302D	1,840.00
160	4.0	16402D	2,170.00
180	2.0	18202D	1,880.00
180	3.0	18302D	1,910.00
180	4.0	18402D	2,230.00



## 1 Extraction arms

### 1.4 Ball-joint extraction arms with square hoods



#### 360° swivelling

with gas pressure shock absorbers and ball-joint for ceiling or wall mounting

Ø mm	Length m	Art. no.	Price €
100	2.0	10203D	1,850.00
100	3.0	10303D	1,930.00
100	4.0	10403D	2,250.00
125	2.0	12203D	1,880.00
125	3.0	12303D	1,970.00
125	4.0	12403D	2,300.00
140	2.0	14203D	1,920.00
140	3.0	14303D	2,010.00
140	4.0	14403D	2,380.00
150	2.0	15203D	1,930.00
150	3.0	15303D	2,030.00
150	4.0	15403D	2,410.00
160	2.0	16203D	1,970.00
160	3.0	16303D	2,060.00
160	4.0	16403D	2,430.00
180	2.0	18203D	2,070.00
180	3.0	18303D	2,260.00
180	4.0	18403D	2,440.00

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

# 1 Extraction arms

## 1.5 Extraction arms with PU hose and square hoods



	Ø mm	Length m	Art. no.	Price €
	100	1.5	101539 S/W	1,030.00
	100	2.0	102039 S/W	1,060.00
	100	3.0	103039 S/W	1,080.00
	100	4.0	1040349 S/W	1,420.00
	100	4.0*	104039 W	1,470.00
	100	5.0*	105039 W	1,650.00
	100	6.0**	106039 W	1,720.00
	125	1.5	121539 S/W	1,110.00
	125	2.0	122039 S/W	1,120.00
	125	3.0	123039 S/W	1,160.00
	125	4.0	1240349 S/W	1,480.00
	125	4.0*	124039 W	1,550.00
	125	5.0*	125039 W	1,680.00
	125	6.0**	126039 W	1,790.00
	140	1.5	141539 S/W	1,160.00
	140	2.0	142039 S/W	1,190.00
	140	3.0	143039 S/W	1,230.00
	140	4.0	1440349 S/W	1,520.00
	140	4.0*	144039 W	1,590.00
	140	5.0*	145039 W	1,750.00
	140	6.0**	146039 W	1,860.00
	150	1.5	151539 S/W	1,190.00
	150	2.0	152039 S/W	1,240.00
	150	3.0	153039 S/W	1,300.00
	150	4.0	1540349 S/W	1,560.00
	150	4.0*	154039 W	1,630.00
	150	5.0*	155039 W	1,880.00
	150	6.0**	156039 W	2,020.00
	160	1.5	161539 S/W	1,290.00
	160	2.0	162039 S/W	1,310.00
	160	3.0	163039 S/W	1,380.00
	160	4.0	1640349 S/W	1,630.00
	160	4.0*	164039 W	1,710.00
	160	5.0*	165039 W	1,930.00
	160	6.0**	166039 W	2,090.00
	180	1.5	181539 S/W	1,410.00
	180	2.0	182039 S/W	1,430.00
	180	3.0	183039 S/W	1,540.00
	180	4.0*	184039 W	1,880.00
	180	5.0*	185039 W	2,180.00
	180	6.0**	186039 W	2,300.00

Please specify required type of mounting



S = standpipe

W = wall bracket

From 4.0m extension with boom  
only possible with wall bracket

\* including 2.0m boom – \*\* including 3.0m boom

## 1 Extraction arms

### 1.6 Extraction arms with plastic hoods



Ø mm	Length m	Art. no.	Price €
140	1.5	14154 S/W	1,060.00
140	2.0	14204 S/W	1,070.00
140	3.0	14304 S/W	1,090.00
140	4.0*	14404 W	1,440.00
140	5.0*	14504 W	1,680.00
140	6.0**	14604 W	1,800.00

\* including 2.0m boom – \*\* including 3.0m boom

Please specify required type of mounting



S = standpipe

W = wall bracket

From 4.0m extension with boom  
only possible with wall bracket

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes



# 1 Extraction arms

## 1.7 Extraction arms in ATEX version with oval hoods



Applications in EX zones 1/21 and 2/22 possible.  
Identification per ATEX: EX II 2G and EX II 2D.

Ø mm	Length m	Art. no.	Price €
70	1.5	701529 SA/WA	1,360.00
70	2.0	702029 SA/WA	1,390.00
70	3.0	703029 SA/WA	1,420.00
80	1.5	801529 SA/WA	1,470.00
80	2.0	802029 SA/WA	1,480.00
80	3.0	803029 SA/WA	1,510.00
100	1.5	101529 SA/WA	1,470.00
100	2.0	102029 SA/WA	1,490.00
100	3.0	103029 SA/WA	1,520.00
100	4.0	1040249 SA/WA	1,840.00
100	4.0*	104029 WA	1,890.00
100	5.0*	105029 WA	2,160.00
100	6.0**	106029 WA	2,250.00
125	1.5	121529 SA/WA	1,540.00
125	2.0	122029 SA/WA	1,560.00
125	3.0	123029 SA/WA	1,610.00
125	4.0	1240249 SA/WA	1,900.00
125	4.0*	124029 WA	1,940.00
125	5.0*	125029 WA	2,200.00
125	6.0**	126029 WA	2,330.00
140	1.5	141529 SA/WA	1,580.00
140	2.0	142029 SA/WA	1,600.00
140	3.0	143029 SA/WA	1,630.00
140	4.0	1440249 SA/WA	1,940.00
140	4.0*	144029 WA	1,970.00
140	5.0*	145029 WA	2,220.00
140	6.0**	146029 WA	2,350.00
150	1.5	151529 SA/WA	1,670.00
150	2.0	152029 SA/WA	1,700.00
150	3.0	153029 SA/WA	1,740.00
150	4.0	1540249 SA/WA	1,980.00
150	4.0*	154029 WA	2,020.00
150	5.0*	155029 WA	2,250.00
150	6.0**	156029 WA	2,410.00
160	1.5	161529 SA/WA	1,770.00
160	2.0	162029 SA/WA	1,780.00
160	3.0	163029 SA/WA	1,820.00
160	4.0	1640249 SA/WA	2,010.00
160	4.0*	164029 WA	2,170.00

Please specify required type of mounting



SA = standpipe

WA = wall bracket

From 4.0m extension with boom  
only possible with wall bracket

\* including 2.0m boom – \*\* including 3.0m boom

# 1 Extraction arms

## 1.7 Extraction arms in ATEX version with oval hoods (continued)



Applications in EX zones 1/21 and 2/22 possible.  
Identification per ATEX: EX II 2G and EX II 2D.

Ø mm	Length m	Art. no.	Price €
160	5.0*	165029 WA	2,300.00
160	6.0**	166029 WA	2,530.00
180	1.5	181529 SA/WA	1,860.00
180	2.0	182029 SA/WA	1,880.00
180	3.0	183029 SA/WA	1,980.00
180	4.0*	184029 WA	2,330.00
180	5.0*	185029 WA	2,450.00
180	6.0**	186029 WA	2,750.00
200	2.0	202029 SA/WA	2,020.00
200	3.0	203029 SA/WA	2,140.00
200	4.0*	204029 WA	2,460.00
200	5.0*	205029 WA	2,590.00
200	6.0**	206029 WA	2,890.00

Please specify required type of mounting



SA = standpipe

WA = wall bracket

\* including 2.0m boom – \*\* including 3.0m boom

From 4.0m extension with boom only possible with wall bracket

## 1.8 Special accessories for extraction arms

Art. no. Price €

### LED Lighting kit installed in the nozzle hood

30014425 480.00

### LED Lighting kit installed in the efficiency hood

30014361 480.00

### Shut-off valves installed in the extraction arm (airtight)



Ø 100mm	30000591	153.00
Ø 125mm	30000592	166.00
Ø 140mm	30000593	166.00
Ø 150mm	30000594	173.00
Ø 160mm	30000595	181.00
Ø 180mm	30000596	187.00

## 1 Extraction arms

### 1.8 Special accessories for extraction arms

**Art. no.**

**Price €**

#### Throttle valves

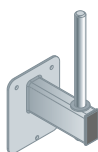
installed in the extraction arm, for controlling the air flow



Ø 50 mm	30000597	<b>127.00</b>
Ø 70 mm	30000598	<b>127.00</b>
Ø 80 mm	30000599	<b>127.00</b>
Ø 100 mm	30000600	<b>84.70</b>
Ø 125 mm	30000601	<b>84.70</b>
Ø 140 mm	30000602	<b>91.80</b>
Ø 150 mm	30000603	<b>91.80</b>
Ø 160 mm	30000604	<b>91.80</b>
Ø 180 mm	30000605	<b>99.10</b>

#### Wall bracket, separate

Optionally included with delivery



30010439	<b>92.60</b>
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#### Standpipe, separate

Optionally included with delivery



30001505	<b>95.40</b>
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#### Floor stand device

Height: 1,000 mm, for extraction arm with standpipe



30001388	<b>209.00</b>
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#### Surcharge for special version

Medium-contacting parts made from stainless steel, V2A (oval hood and pipes)

70583100	<b>359.00</b>
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Painted parts in special paint (RAL colour, extraction arm length 1.5 m – 3.0 m)

70581100	<b>122.00</b>
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Painted parts in special paint (RAL colour, extraction arm length 4.0 m – 8.0 m)

70582100	<b>149.00</b>
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# 1 Extraction arms

## 1.9 Laboratory extraction arm 50 D



Art. no.

Price €

### Laboratory extraction arm 50 D

Standard version with crevice tool, total reach 900 mm, for table top mounting (including fixtures)

50080

305.00

Version with polyamide washer (abrasion-free)

50080006

305.00

## 1.10 Special accessories for laboratory extraction arm 50 D

Art. no.

Price €

### Standard extraction hood

Oval opening 90 × 110 mm, intake Ø50 mm



30000184

117.00

### Extraction hood round opening

Ø210 mm, intake Ø50 mm



30000907

233.00

### Extraction hood slot opening

200 × 12 mm, intake Ø50 mm



30000908

153.00

### Extraction hood for grinding wheels

Suction opening 80 × 30 mm, intake Ø50 mm



30000903

153.00

### Rubber extraction hood

Flexible joints, suction opening 95 × 15 mm, intake Ø50 mm



30000917

48.60

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems







Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 1 Extraction arms

### 1.10 Special accessories for laboratory extraction arm 50D

	<i>Art. no.</i>	<i>Price €</i>
<b>Transparent plexiglas hood</b> Suction area 250×220 mm, jointed intake Ø50 mm		
	30000918	280.00
<b>Throttle valve</b> installed in the extraction arm		
	30000910	91.80
<b>Wall mounting fixture</b>		
	30000905	111.00
<b>Table clamping device</b> to be attached to table side		
	06000678	216.00
<b>Connecting hose</b> Ø50 mm, price per metre		
	06002756	23.20
<b>Clamp</b>		
	Ø40 – 60 mm 06000433	2.20

## 2 Extraction hoods

ESTA offers a wide selection of extraction hoods for optimum capture of dust and smoke: Different nominal diameters and capture shapes are available depending on the application. Oval and square hoods are particularly suitable for precise extraction and can be connected to extraction arms, pipe systems and hoses.

The modular system extraction hood for connection to a filter unit or a fan is used in all applications where point extraction is not feasible and a larger capture radius is required.



System extraction hood, optionally with welding protecting strips and mounting feet



Square extraction hood on a welding robot

**ESTA PLUS**

### Application

- » For precise and large-scale capture of dust and smoke sources
- » For connecting to filter systems, fans, extraction arms, pipe systems and hoses

### Special features

- » Wide range of nominal connection diameters and capture shapes for different applications

### Benefits

- » Optimum capture directly at the source
- » Easy handling
- » High finishing quality



Extraction arm with square hood for large-scale extraction of dust in a transfer process in the bulk materials industry



Extraction arms with efficiency hood for precise detection of welding fumes

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

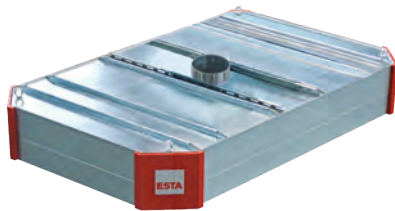
Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 2 Extraction hoods

### 2.1 System extraction hoods



#### Standard version

The modular extraction hood system is used wherever point extraction is not feasible. Smoke gases and vapours can be captured large-scale at the source, which ensures a high degree of flexibility in the workplace. The extraction hood with the filter system can be connected via a pipeline system. The modular design offers maximum flexibility and can be aligned to your application-specific requirements - air flow rates from 1,300 m³/h up to 10,800 m³/h can be achieved.

Depending on requirements, the system extraction hood can be installed hanging freely or standing with height-adjustable feet. Welding protection strips prevent the discharge of smoke gases and welding spatter and provide glare protection.

The delivery can be made as individual building blocks for self-assembly, pre-assembled or as a complete installation.

<i>L × W mm*</i>	<i>Volume flow in m³/h</i>	<i>Art. no.</i>	<i>Price €</i>
950 × 950	1.300	30007570	<b>1,560.00</b>
1,200 × 950	1.600	30007571	<b>1,720.00</b>
1,200 × 1,200	2.000	30007572	<b>1,840.00</b>
1,450 × 950	1.900	30007573	<b>1,800.00</b>
1,450 × 1,200	2.400	30007574	<b>1,890.00</b>
1,450 × 1,450	2.900	30007575	<b>2,020.00</b>
1,700 × 950	2.300	30007576	<b>1,940.00</b>
1,700 × 1,200	2.900	30007577	<b>2,080.00</b>
1,700 × 1,450	2.500	30007578	<b>2,230.00</b>
1,700 × 1,700	4.000	30007579	<b>2,490.00</b>
1,950 × 950	2.600	30007580	<b>1,930.00</b>
1,950 × 1,200	3.300	30007581	<b>2,040.00</b>
1,950 × 1,450	4.000	30007582	<b>2,150.00</b>
1,950 × 1,700	4.600	30007583	<b>2,420.00</b>
1,950 × 1,950	5.300	30007584	<b>2,600.00</b>
2,200 × 950	2.900	30007585	<b>2,080.00</b>
2,200 × 1,200	3.700	30007586	<b>2,230.00</b>
2,200 × 1,450	4.500	30007587	<b>2,360.00</b>
2,200 × 1,700	5.200	30007588	<b>2,780.00</b>
2,200 × 1,950	6.000	30007589	<b>2,870.00</b>
2,450 × 950	3.300	30007590	<b>2,150.00</b>
2,450 × 1,200	4.100	30007591	<b>2,280.00</b>
2,450 × 1,450	5.000	30007592	<b>2,420.00</b>
2,450 × 1,700	5.800	30007593	<b>2,910.00</b>
2,450 × 1,950	6.700	30007594	<b>3,000.00</b>
2,700 × 950	3.600	30007595	<b>2,300.00</b>
2,700 × 1,200	4.500	30007596	<b>2,470.00</b>
2,700 × 1,450	5.500	30007597	<b>2,760.00</b>
2,700 × 1,700	6.400	30007598	<b>3,160.00</b>
2,700 × 1,950	7.400	30007599	<b>3,260.00</b>

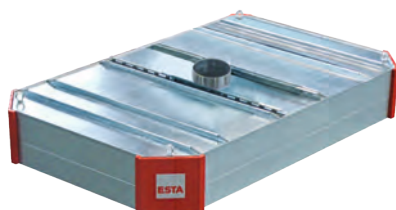


**Accessories:**  
For welding protection strips and mounting feet, see pages 21+22

## 2 Extraction hoods

### 2.1 System extraction hoods

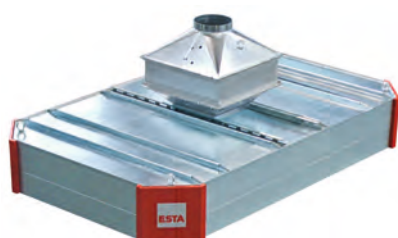
#### Standard version (continued)



**Accessories:**  
For welding protection strips and mounting feet, see pages 21+22

<i>L × W mm*</i>	<i>Volume flow in m³/h</i>	<i>Art. no.</i>	<i>Price €</i>
2,950 × 950	3.900	30007600	<b>2,290.00</b>
2,950 × 1,200	5.000	30007601	<b>2,420.00</b>
2,950 × 1,450	6.000	30007602	<b>2,800.00</b>
2,950 × 1,700	7.000	30007603	<b>3,290.00</b>
2,950 × 1,950	8.100	30007604	<b>3,390.00</b>
3,200 × 1,450	6.500	30007605	<b>2,900.00</b>
3,200 × 1,700	7.600	30007606	<b>3,320.00</b>
3,200 × 1,950	8.700	30007607	<b>3,420.00</b>
3,450 × 1,450	7.200	30007608	<b>2,960.00</b>
3,450 × 1,700	8.400	30007609	<b>3,470.00</b>
3,450 × 1,950	9.400	30007610	<b>3,550.00</b>
3,700 × 1,450	7.700	30007611	<b>3,170.00</b>
3,700 × 1,700	9.000	30007612	<b>3,710.00</b>
3,700 × 1,950	10.100	30007613	<b>3,800.00</b>
3,950 × 1,450	8.200	30007614	<b>3,100.00</b>
3,950 × 1,700	9.600	30007615	<b>3,620.00</b>
3,950 × 1,950	10.800	30007616	<b>3,720.00</b>

#### Variants with spark pre-separator



**Accessories:**  
For welding protection strips and mounting feet, see pages 21+22

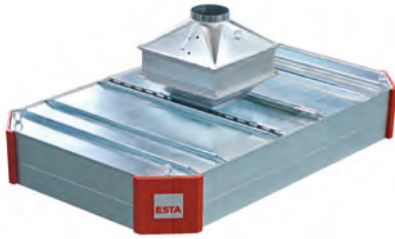
The pre-separator on the extraction nozzle prevents sparks entering the pipe system. The extracted air is diverted via a deflector plate, the suctioned sparks are held back and reliably separated. The risk of filter fire can be reduced significantly. Due to the special design, deposition of the separated particles can also be prevented and maintenance cost is reduced almost to zero.

<i>L × W mm*</i>	<i>Volume flow in m³/h</i>	<i>Art. no.</i>	<i>Price €</i>
950 × 950	1.300	30007620	<b>2,270.00</b>
1,200 × 950	1.600	30007621	<b>2,360.00</b>
1,200 × 1,200	2.000	30007622	<b>2,550.00</b>
1,450 × 950	1.900	30007623	<b>2,450.00</b>
1,450 × 1,200	2.400	30007624	<b>2,640.00</b>
1,450 × 1,450	2.900	30007625	<b>2,740.00</b>
1,700 × 950	2.300	30007626	<b>2,540.00</b>
1,700 × 1,200	2.900	30007627	<b>2,740.00</b>
1,700 × 1,450	3.500	30007628	<b>3,020.00</b>
1,700 × 1,700	4,000	30007629	<b>3,240.00</b>



## 2 Extraction hoods

### 2.1 System extraction hoods



**Variants with spark pre-separator** (continued)

<i>L × W mm*</i>	<i>Volume flow in m³/h</i>	<i>Art. no.</i>	<i>Price €</i>
1,950 × 950	2.600	30007630	<b>2,600.00</b>
1,950 × 1,200	3.300	30007631	<b>2,840.00</b>
1,950 × 1,450	4,000	30007632	<b>3,310.00</b>
1,950 × 1,700	4,600	30007633	<b>3,530.00</b>
1,950 × 1,950	5.300	30007634	<b>4,130.00</b>
2,200 × 950	2.900	30007635	<b>2,700.00</b>
2,200 × 1,200	3,700	30007636	<b>2,920.00</b>
2,200 × 1,450	4,500	30007637	<b>3,610.00</b>
2,200 × 1,700	5,200	30007638	<b>3,830.00</b>
2,200 × 1,950	6.000	30007639	<b>4,330.00</b>
2,450 × 950	3,300	30007640	<b>2,790.00</b>
2,450 × 1,200	4,100	30007641	<b>2,990.00</b>
2,450 × 1,450	5.000	30007642	<b>3,920.00</b>
2,450 × 1,700	5,800	30007643	<b>4,140.00</b>
2,450 × 1,950	6,700	30007644	<b>4,530.00</b>
2,700 × 950	3,600	30007645	<b>2,870.00</b>
2,700 × 1,200	4,500	30007646	<b>3,070.00</b>
2,700 × 1,450	5,500	30007647	<b>4,190.00</b>
2,700 × 1,700	6,400	30007648	<b>4,440.00</b>
2,700 × 1,950	7,400	30007649	<b>4,700.00</b>
2,950 × 950	3,900	30007650	<b>2,960.00</b>
2,950 × 1,200	5.000	30007651	<b>3,140.00</b>
2,950 × 1,450	6.000	30007652	<b>4,260.00</b>
2,950 × 1,700	7.000	30007653	<b>4,760.00</b>
2,950 × 1,950	8,100	30007654	<b>4,900.00</b>
3,200 × 1,450	6,500	30007655	<b>4,340.00</b>
3,200 × 1,700	7,600	30007656	<b>4,830.00</b>
3,200 × 1,950	8,700	30007657	<b>5,010.00</b>
3,450 × 1,450	7,200	30007658	<b>4,410.00</b>
3,450 × 1,700	8,400	30007659	<b>4,910.00</b>
3,450 × 1,950	9,400	30007660	<b>5,070.00</b>
3,700 × 1,450	7,700	30007661	<b>4,470.00</b>
3,700 × 1,700	9.000	30007662	<b>5,010.00</b>
3,700 × 1,950	10,100	30007663	<b>5,160.00</b>
3,950 × 1,450	8,200	30007664	<b>4,560.00</b>
3,950 × 1,700	9,600	30007665	<b>5,070.00</b>
3,950 × 1,950	10,800	30007666	<b>5,250.00</b>



**Accessories:**  
For welding protection  
strips and mounting feet,  
see pages 21+22

## 2 Extraction hoods

### 2.2 Accessories for system extraction hoods



#### Support foot

telescopic, in four stages of 125 mm each from 2,500 mm to 3.000 mm, 1 set = 4 pieces

Art. no. 30007893 Price € 1,170.00



#### Welding protection strips

Minimum length: 1.000mm. Please specify required length per lamella and number of pieces

Art. no. 06006068 Price €/m 16.20

Art. No. Price €

#### Mounting material

Mounting the welding lamellae on the system extraction hood  
(1 piece required per lamella)

Art. no. 30009614 Price € 9.20 (Piece)

#### Recommended number of welding protection strips for system extraction hoods without and with spark pre-separator



L × W mm*	Number of welding protection strips
950 × 950	12
1,200 × 950	14
1,200 × 1,200	16
1,450 × 950	16
1,450 × 1,200	18
1,450 × 1,450	20
1,700 × 950	18
1,700 × 1,200	20
1,700 × 1,450	22
1,700 × 1,700	24
1,950 × 950	20
1,950 × 1,200	22
1,950 × 1,450	24
1,950 × 1,700	26
1,950 × 1,950	28

Continued on the next page

## 2 Extraction hoods

### 2.2 Accessories for system extraction hoods

**Recommended number of welding protection strips  
for system extraction hoods** without and with spark pre-separator (continued)



<i>L × W mm*</i>	<i>Number of welding protection strips</i>
2,200 × 950	22
2,200 × 1,200	24
2,200 × 1,450	26
2,200 × 1,700	28
2,200 × 1,950	30
2,450 × 950	24
2,450 × 1,200	26
2,450 × 1,450	28
2,450 × 1,700	30
2,450 × 1,950	32
2,700 × 950	26
2,700 × 1,200	28
2,700 × 1,450	30
2,700 × 1,700	32
2,700 × 1,950	34
2,950 × 950	28
2,950 × 1,200	30
2,950 × 1,450	32
2,950 × 1,700	34
2,950 × 1,950	36
3,200 × 1,450	34
3,200 × 1,700	36
3,200 × 1,950	38
3,450 × 1,450	36
3,450 × 1,700	38
3,450 × 1,950	40
3,700 × 1,450	38
3,700 × 1,700	40
3,700 × 1,950	42
3,950 × 1,450	40
3,950 × 1,700	42
3,950 × 1,950	44

## 2 Extraction hoods

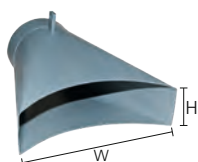
### Calculation example for ordering welding protection strips

1. Selection of the system extraction hood with the required number of optional welding protection strips (page 21)	System extraction hood 1,700 × 1,700 mm required according to overview table for 24 lamellae
2. Specification of the required length of the welding protection strips	In the example, 1.5 m length per welding protection strip is required due to application-specific circumstances
3. Price calculation (welding protection strip price per m: € 16.20 – page 21)	<p>Number of welding protection strip × length of welding protection strip × price/m = total price</p> <p>24 pieces × 1,5 m = 36 sqm – 36 sqm × 16,20 € = 583,20 €</p>
4. Required order information	24 pieces weldind protection striped (art. no.: 06006068) each 1.5 m length 24 × 1,5 m = 36 sqm – 36qm × 16,20 € = 583,20 €

### 2.3 Dust collection hoods

#### Flat opening for grinding discs

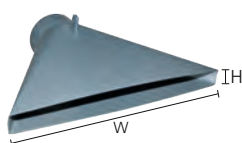
Sheet steel, powder-coated, RAL 7012 (grey)



Connection Ø mm	W × H mm	Art. no.	Price €
50	90 × 30	15001243	108.00
70	200 × 60	15001244	134.00
80	200 × 60	15001245	141.00
100	200 × 80	15001246	148.00
125	250 × 80	15001247	158.00
150	300 × 80	15001248	192.00
180	400 × 80	15001249	241.00

#### Slotted opening

Sheet steel, powder-coated, RAL 7012 (grey)



Connection Ø mm	W × H mm	Art. no.	Price €
50	210 × 12	15001250	130.00
70	300 × 30	15001251	134.00
80	300 × 35	15001252	141.00
100	400 × 35	15001253	148.00
100	600 × 80	15010012	149.00
125	500 × 40	15001254	173.00
125	800 × 40	15009817	164.00
150	500 × 65	15001255	171.00
160	600 × 100	15007774	230.00
180	500 × 60	15001256	188.00

## 2 Extraction hoods

### 2.4 Oval hoods

#### Round opening

Sheet steel, powder-coated, RAL 7012 (grey)



Connection Ø mm	Ø 1 / Ø 2 mm	Art. no.	Price €
70	70 / 125	15004829	<b>100.10</b>
70	70 / 300	15007989	<b>96.20</b>
80	80 / 125	15004830	<b>106.00</b>
100	100 / 150	15004825	<b>112.00</b>
100	100 / 300	30003571	<b>134.00</b>
125	125 / 180	15004827	<b>122.00</b>
150	150 / 200	15004826	<b>126.00</b>
150	150 / 300	30002448	<b>149.00</b>
180	180 / 250	15004828	<b>143.00</b>

#### Powder-coated (sheet steel, RAL 7012, grey)



Connection Ø mm	Art. no.	Price €
50	30013127	<b>131.00</b>
70	30013128	<b>150.00</b>
80	30013129	<b>175.00</b>
100	30013130	<b>176.00</b>
125	30013131	<b>178.00</b>
140	30013132	<b>180.00</b>
150	30013133	<b>184.00</b>
160	30013134	<b>191.00</b>
180	30013135	<b>215.00</b>
200	30013136	<b>237.00</b>

#### oval, stainless steel



Connection Ø mm	W x H mm	Art. no.	Price €
50	116 x 101	30001477	<b>278.00</b>
70	147 x 126	30001478	<b>301.00</b>
80	168 x 142	30001479	<b>318.00</b>
100	215 x 183	30001480	<b>330.00</b>
125	268 x 228	30001481	<b>348.00</b>
140	297 x 252	30001482	<b>359.00</b>
150	312 x 264	30001483	<b>365.00</b>
160	323 x 269	30001484	<b>371.00</b>
180	374 x 321	30001485	<b>389.00</b>



## 2 Extraction hoods

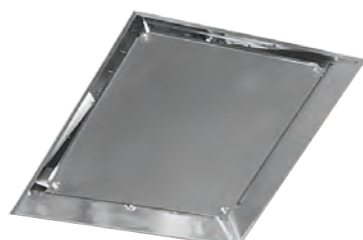
### 2.5 Efficiency hood



#### Efficiency hood of plastic

Connection Ø mm	Art. no.	Price €
125	30013757	386.00
140	30012973	364.00
150	30013755	386.00
160	30013756	386.00

### 2.6 Square hoods



#### square (aluminium 2.7 kg)

Connection Ø mm	L × W mm	Art. no.	Price €
100	500 × 500	30000678	359.00
125	500 × 500	30000679	365.00
150	500 × 500	30000868	391.00

#### square (aluminium 3.0 kg)

Connection Ø mm	L × W mm	Art. no.	Price €
140	600 × 600	30000866	380.00
150	600 × 600	30000680	385.00
160	600 × 600	30000867	391.00
180	600 × 600	30000681	420.00

## 3 Protective walls / curtains / lamellae

Welding protection walls are indispensable especially in production areas and workshops where welders work together with other employees. Their use allows welding workplaces to be clearly and safely separated from the rest of the environment, as to protect adjacent work areas.

ESTA welding protection walls are optionally equipped with a curtain or lamellae, which effectively protect against glare and distraction, as well as against light sparks and dirt. The material is less translucent and allow for more robust processing. For flexible use, walls are also available in a mobile version. Protective walls not only provide ideal conditions for welding work, but also ensure protection of health, work, as well as against fire during production.



### **Application**

- » In workshops or operations with welding workstations

### **Special features**

- » Sturdy construction
- » Easy assembly

### **Benefit**

- » Optimal protection of employees, machinery and equipment items



## 3 Protective walls

### 3.1 One-piece mobile welding protection wall with lamellae

The single-piece, mobile ESTA welding protection panel with lamellae is ideal for work that regularly involves welding at various locations. Through the four smooth-running swivel casters, two of which are equipped with brakes for locking, the partition can be quickly and easily shifted.

If on-site conditions do not allow a permanent installation of a welding booth, then the mobile welding protection walls represents a very flexible and convenient alternative.

In addition, the ESTA welding protection walls can be conveniently combined with each other to create an ideal and, above all, safe working environment. After the welding work, protective walls can be removed, making the space in your welding shop available again.



#### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

#### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 with a hazard factor <1 (except transparent design)
- » Delivery in three different colours possible: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
  - transparent: no protection against welding light
- » Dimensions: 2,100 x 1,950mm
- » Lamellae: 300 x 2mm, 1,300mm long
- » Lamellae overlap 33%
- » Swivel casters: 4 Ø100mm units, of which 2 with brakes
- » Frame blue powder-coated
- » Pipes gray powder-coated
- » Ground clearance: approx. 600mm
- » Weight: 35.5kg

Colour	Art.no.	Price €
Red	06003158	550.00
matte dark green	06003159	550.00
transparent	06003157	550.00

### 3 Protective walls

#### 3.2 One-piece mobile welding protection wall with curtain

The one-piece, mobile ESTA welding protection panel with lamellae is ideal for work that regularly involves welding at various locations. Through the four smooth-running swivel casters, two of which are equipped with brakes for locking, the partition can be quickly and easily shifted.

If on-site conditions do not allow a permanent installation of a welding booth, then the mobile welding protection walls represents a very flexible and convenient alternative. Furthermore, ESTA welding protection walls can be conveniently combined with each other to create an ideal and, above all, safe working environment. After the welding work, protective walls can be removed, making the space in your welding shop available again.



#### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

#### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 (exception transparent design)
- » Delivery in three different colours possible: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
  - transparent: no protection against welding light
- » Dimensions: 2,100 × 1,950mm
- » Curtains: 2 pieces (1,300 × 1,600mm)
- » Fixing with snap hooks (13 pieces)
- » Swivel casters: 4 Ø100mm units, of which 2 with brakes
- » Frame blue powder-coated
- » Pipes gray powder-coated
- » Ground clearance: 300mm
- » Weight: 28.5kg

Colour	Art.no.	Price €
Red	06003161	415.00
matte dark green	06003162	415.00
transparent	06003160	415.00

## 3 Protective walls

### 3.3 Three-piece mobile welding protection wall with lamellae

The three-piece, mobile ESTA welding protection panel with lamellae is ideal for work that involves welding at various locations on a regular basis. Through the four smooth-running swivel casters, two of which are equipped with brakes for locking, the partition can be quickly and easily shifted. If on-site conditions do not allow a permanent installation of a welding booth, then the mobile welding protection walls represents a very flexible and convenient alternative. The two extension arms can easily be folded forwards or backwards and brought into the desired position. Furthermore, ESTA welding protection walls can be conveniently combined with each other to create an ideal and, above all, safe working environment. After the welding work, protective walls can be removed, making the space in your welding shop available again.



#### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

#### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 with a hazard factor <1 (except transparent design)
- » Delivery in three different colours possible: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
  - transparent: no protection against welding light
- » Total width: 3,700mm
- » Frame middle section: 2,100 x 1,950mm
- » Extensible arms: 2 pieces of 800mm length
- » Lamellae: 300 x 2mm, 1,300mm long
- » Lamellae overlap 33%
- » Swivel casters: 4 Ø100mm units, of which 2 with brakes
- » Frame blue powder-coated
- » Pipes gray powder-coated
- » Ground clearance: approx. 600mm
- » Weight: 47.0kg

Colour	Art.no.	Price €
Red	06003152	725.00
matte dark green	06003153	725.00
transparent	06003151	725.00



### 3 Protective walls

#### 3.4 Three-piece mobile welding protection wall with curtain

The three-piece, mobile ESTA welding protection panel with curtains is ideal for work that involves welding at various locations on a regular basis. Through the four smooth-running swivel casters, two of which are equipped with brakes for locking, the partition can be quickly and easily shifted. If on-site conditions do not allow a permanent installation of a welding booth, then the mobile welding protection walls represents a very flexible and convenient alternative. The two extension arms can easily be folded forwards or backwards and brought into the desired position. Furthermore, ESTA welding protection walls can be conveniently combined with each other to create an ideal and, above all, safe working environment. After the welding work, protective walls can be removed, making the space in your welding shop available again.



##### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

##### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 with a hazard factor <1 (except transparent design)
- » Delivery in three different colours possible: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
  - transparent: no protection against welding light
- » Total width: 3,700mm
- » Frame middle section: 2,100 × 1,950mm
- » Extensible arms: 2 pieces of 800mm length
- » Curtains: 3 pieces (1,300 × 1,600mm)
- » Fixing with snap hooks (19 pieces)
- » Swivel casters: 4 Ø100mm units, of which 2 with brakes
- » Frame blue powder-coated
- » Pipes gray powder-coated
- » Ground clearance: 300mm
- » Weight: 35.0kg

Colour	Art.no.	Price €
Red	06003155	539.00
matte dark green	06003156	539.00
transparent	06003154	539.00

## 3 Protective walls

### 3.5 Compact welding protection wall with large curtain

The compact welding protection wall with curtain is ideal for work in which welding occurs at different locations on a regular basis.

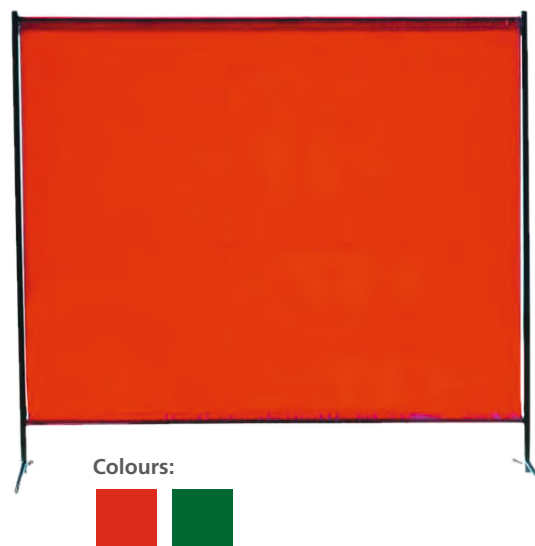
Thanks to special supporting feet, several partition walls can be freely connected to each other, and can therefore be flexibly combined to deploy welding booths or workstation separations. The supplied curtain with hemstitch is pushed onto the two cross tubes, and thus automatically covered - fast and easy.

#### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

#### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 at a hazard factor <1
- » Delivery is available in two different colours: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
- » Dimensions: 2,050 × 1,870mm
- » Curtains: 1 piece (2,000 × 1,600mm) with hemstitch
- » Attachment onto cross tubes
- » Black steel tube frame, powder-coated
- » Ground clearance: 250 mm
- » Weight: 10.5kg



Colour	Art.no.	Price €
Red	06003165	212.00
matte dark green	06003166	212.00

### 3 Protective walls

#### 3.6 Compact welding protection wall with a small curtain

The compact welding protection wall with curtain is ideal for work in which welding occurs at different locations on a regular basis.

Thanks to special supporting feet, several partitions can be connected to each other without gaps, making them flexible for welding booths or workstation partitions.

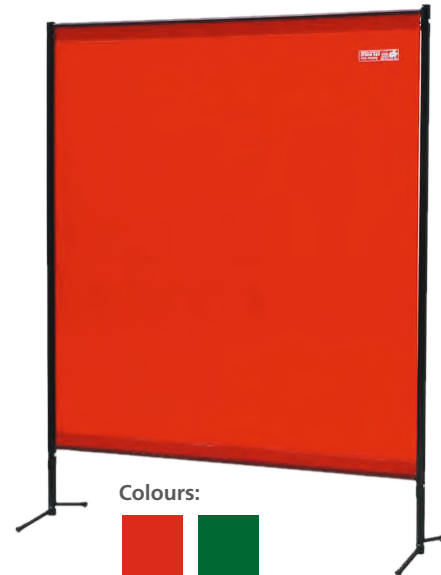
The supplied curtain with hemstitch is pushed onto the two cross tubes, and thus automatically covered - fast and easy.

##### Applications

- » Welding and grinding
- » Protection against drafts, dust, moisture and abrasive splashes
- » Separation of work areas

##### Technical details

- » Protection against welding arcs in accordance with DIN EN ISO 25980 at a hazard factor <1
- » Delivery is available in two different colours: red, matte dark green, transparent
- » Risk factors:
  - red: 0.80
  - matte dark green: 0.05
- » Dimensions: 1,450 × 1,870 mm
- » Curtains: 1 piece (1,400 × 1,600 mm) with hemstitch
- » Attachment onto cross tubes
- » Black steel tube frame, powder-coated
- » Ground clearance: 250 mm
- » Weight: 9.8 kg



Colour	Art.no.	Price €
Red	06003163	179.00
matte dark green	06003164	179.00

## 3 Protective walls

### 3.7 Curtains

#### Matte dark-green welding protection curtain

ESTA welding protection curtains offer optimum protection against welding arcs in accordance with DINENISO25980 and DINEN1598.  
Hazard factor 0.05



<i>W × L mm</i>	<i>Art.no.</i>	<i>Price €</i>
1300 × 1,600	06003108	<b>43.40</b>
1300 × 1,800	06003109	<b>48.40</b>
1300 × 2,000	06003110	<b>54.90</b>
1,300 × 2,200	06003111	<b>63.70</b>
1,300 × 2,400	06003112	<b>68.80</b>
1,300 × 2,600	06003113	<b>73.80</b>
1,300 × 2,800	06003114	<b>79.00</b>
1,300 × 3,000	06003115	<b>87.90</b>

#### Red welding protection curtain

ESTA welding protection curtains offer optimum protection against welding arcs in accordance with DINENISO25980 and DINEN1598.  
Hazard factor 0.80



<i>W × L mm</i>	<i>Art.no.</i>	<i>Price €</i>
1300 × 1,600	06003100	<b>43.40</b>
1300 × 1,800	06003101	<b>48.40</b>
1300 × 2,000	06003102	<b>54.90</b>
1,300 × 2,200	06003103	<b>63.70</b>
1,300 × 2,400	06003104	<b>68.80</b>
1,300 × 2,600	06003105	<b>73.80</b>
1,300 × 2,800	06003106	<b>79.00</b>
1,300 × 3,000	06003107	<b>87.90</b>

Extraction arms

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accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

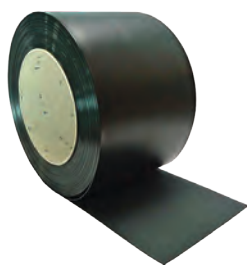
Post-filters

Spiral seam pipes/  
steel pipes

## 3 Protective walls

### 3.8 Lamellae strips

#### Lamellae strip in matte dark green



ESTA lamellae strips protect in accordance with DIN EN ISO 25980 with a hazard factor < 1.

**Technical details**

- » Colour: matte dark green
- » Width: 300 mm
- » Thickness: 2.0 mm/3.0 mm
- » Roll length: 50.0 m
- » Weight: 0.75 kg/m/1.10 kg/m
- » Hazard factor: 0.05

<i>B × thickness mm</i>	<i>Art.no.</i>	<i>Price € / linear meter</i>
300 × 2.0	06003185	<b>12.80</b>
300 × 3.0	06003186	<b>19.20</b>

#### Red lamellae strips



ESTA lamellae strips protect in accordance with DIN EN ISO 25980 with a hazard factor < 1.

**Technical details**

- » Colour: red
- » Width: 300 mm
- » Thickness: 2.0 mm/3.0 mm
- » Roll length: 50.0 m
- » Weight: 0.75 kg/m/1.10 kg/m
- » Hazard factor: 0.80

<i>B × thickness mm</i>	<i>Art.no.</i>	<i>Price € / linear meter</i>
300 × 2.0	06003185	<b>12.80</b>
300 × 3.0	06003186	<b>19.20</b>

## 3 Protective walls

### 3.9 Fixing

	Art.no.	Price €
<b>C-profile 40 × 40mm</b>		
	Suitable for suspending ESTA welding protection curtains <b>Technical details</b> » Galvanised » Dimensions: 40 × 40 × 2.5mm	
	10002240	45.90/m
<b>Ceiling fixture for C-profile</b>		
	» Powder-coated » including dowels and screws	
	10002236	24.80
<b>Ceiling fixture for 1" pipe</b>		
	» including dowels, screws and washers » Powder-coated	
	10002245	24.30
<b>End cap for C-profile</b>		
	» Material: plastic » Colour: black	
	10002239	1.50
<b>End cap for 1" pipe</b>		
	» Material: plastic » Colour: black	
	10002248	1.50
<b>3-hole retaining plate for curtain stand</b>		
	» Holes: 2 × 9.0mm + 1 × 13.0mm » Dimensions: 140 × 40 × 10mm » powder-coated, black	
	10002258	17.80

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steel pipes



### 3 Protective walls

#### 3.9 Fixing

	Art.no.	Price €
<b>Snap hook for 1" pipe</b>		
	Suitable for suspension of ESTA welding protection curtains on 1" pipe » Inner diameter about 40mm » Requirements: 7 pieces per 1.3-meter curtain » Galvanised	
	10002233	2.60
<b>L-connector for C-profile</b>		
	» for connecting two C-profiles at a 90° angle » Powder-coated	
	10002242	58.50
<b>L-connector for 1" pipe</b>		
	» for connecting two 1" pipes at a 90° angle » Powder-coated	
	10002250	55.90
<b>Carriage with hook for C-profile</b>		
	Suitable for suspending ESTA welding protection curtains. With the help of carriages, even high curtains can be easily moved. <b>Technical details</b> » Dimensions without hooks (L x W x H): 35mm x 30mm x 35mm » Total height with hook: 100mm » Capacity: 5.0kg » Maximum load: 10.0kg » 2 x 4 rolls of plastic	
	10002234	9.10
<b>PA hook for C-profile</b>		
	Suitable for suspending ESTA welding protection curtains <b>Technical details</b> » Material: Light and soft » plastic » Requirements: 7 pieces per 1.3-meter curtain	
	10002232	2.60

### 3 Protective walls

#### 3.9 Fixing

	Art.no.	Price €
<b>1" pipe</b>		
	Suitable for suspending lamellae	
	<b>Technical details</b> » Outer diameter: Ø33.7mm » Galvanised	
	10002244	24.70
<b>Pipe clamp for 1" pipe</b>		
	» including screws and nuts	
	» Galvanised	
	10002256	6.50
<b>Rail connector for C-profile</b>		
	» for connecting two C-profiles	
	» Powder-coated	
	10002241	25.60
<b>Swing clamp for 1" pipe</b>		
	» suitable for lamellae of 2,0-3,0mm of thickness	
	» including screws and nuts	
	10002257	4.80
<b>Front wall fixture for C-profile</b>		
	» powder-coated, gray	
	10002237	26.90
<b>Front wall fixture for 1" pipe</b>		
	» including dowels, screws and washers	
	» Powder-coated	
	10002247	24.40

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steel pipes

### 3 Protective walls

#### 3.9 Fixing

	Art.no.	Price €
<b>T-connector for C-profile</b>		
	» for connecting three C-profiles » Powder-coated	
	10002243	56.20
<b>T-connector for 1" pipe</b>		
	» for connecting three pipes » Powder-coated	
	10002251	56.20
<b>Curtain stand for C-profile</b>		
	Suitable for suspending ESTA welding protection curtains. <b>Technical details</b> » C-profile kit incl. 2 clamping nuts, dimensions: 60 x 60 x 2.5mm » reinforced foot plate » Stand height adjustable over 100 mm grid » Height: 2000-2500mm	
	10002235	259.00
<b>Universal wall fixation for C-profile</b>		
	» for fixing the C-profile to end and side walls » including dowels and screws » powder-coated, gray	
	10002238	30.60
<b>Universal wall fixation for 1" pipe</b>		
	» for fixing the 1" pipe to end and side walls » Adjustable height » including screws and nuts » galvanized/powder coated	
	10002246	30.60

## 4 Extraction cabins

ESTA extraction cabins offer extraction and sound insulation in one. They enclose workplaces or machines prone to generate dust and smoke and prevent the release of pollutants into adjacent workareas. Furthermore, the use of appropriate extraction technology reduces the exposure of employees to dust or smoke and ensures compliance with statutory regulations. Cabins are suitable, among other things, for extraction during welding, grinding, cutting, polishing and for almost all materials (metal, stone, plastic, etc.) which produce particles during processing.

### Basic cabin

The extraction cabins consist of non-flammable wall and ceiling elements. The element thickness is 100 mm. The outer shell is coated in RAL7035 basic structure. Other RAL catalogue colours are also available. The elements are filled with non-combustible, mineral insulating material, DIN4102, surface with abrasion-resistant, black glass fleece. On the inside, there is galvanized expanded metal.

Walls and ceilings are subdivided into a 0.75m grid, and



can be easily integrated into any location. The surface weight is approx. 32kg / m<sup>2</sup>.

All cabins are provided with 250x250 mm cutout in the ceiling to allow the installation of extraction systems or cables.

The cabin base is closed on 3 sides incl. ceiling, whereas one longitudinal side remains open. The cabin is delivered disassembled on disposable pallets. For larger spans i.e. > 6m, an auxiliary support or truss girder is used for the ceiling support.

### Fixation

The floor is fixated by means of a U-profile and dowels. The base frame is delivered in several parts with pre-formed corners.

The ceiling connection relies on a profile screwed onto the wall. With this arrangement, the cabin offers high basic stability.

### Accessories / special equipment

- » Lamellae curtain, fixed
- » Lamellae curtain, sliding
- » Industrial curtain (on request)
- » Industrial curtain, DIN1598 (Welder / on request)
- » Viewing pane made of safety glass
- » LED lighting (IP 54, IP 65, ATEX)
- » Further special designs on request

### Application

- » Extraction of dust and smoke particles as well as noise reduction at workstations or machines

### Special features

- » Modular design
- » Integral construction
- » Flexible setup
- » With powder-coated exterior in RAL colour
- » Many options available

### Benefit

- » Wide range of applications
- » Noise protection and extraction in one
- » No contamination of adjacent areas
- » Easy assembly

## 4 Extraction cabins

### 4.1 Basic cabin body

#### Basic cabin body height 2500 mm – RAL 7035

Prices incl. ceiling, interior height 2400 mm

Dimensions L x W in metres		Side B (width) Outer dimension					Max. Number of windows side B
		2	3	4	5	6	
Side A (width) Outer dimension	2	AN000135 5,610.00 €	AN000136 7,000.00 €	AN000137 8,340.00 €	AN000138 9,680.00 €	AN000139 11,010.00 €	2
	3	AN000140 7,740.00 €	AN000141 9,370.00 €	AN000142 11,010.00 €	AN000143 12,660.00 €	AN000144 14,290.00 €	4
	4	AN000145 9,820.00 €	AN000146 11,770.00 €	AN000147 13,690.00 €	AN000148 15,620.00 €	AN000149 17,570.00 €	5
	5	AN000150 11,920.00 €	AN000151 14,130.00 €	AN000152 16,370.00 €	AN000153 18,600.00 €	AN000154 20,840.00 €	6
	6	AN000155 13,990.00 €	AN000156 16,520.00 €	AN000157 19,060.00 €	AN000158 21,570.00 €	AN000159 24,110.00 €	8
Max. Number of windows side A		2	4	5	6	8	

#### Basic cabin body height 3000 mm – RAL 7035

Prices incl. ceiling, interior height 2900 mm

Dimensions L x W in metres		Side B (width) Outer dimension					Max. Number of windows side B
		2	3	4	5	6	
Side A (width) Outer dimension	2	AN000160 6,550.00 €	AN000161 8,040.00 €	AN000162 9,520.00 €	AN000163 11,030.00 €	AN000164 12,500.00 €	2
	3	AN000165 8,940.00 €	AN000166 10,720.00 €	AN000167 12,500.00 €	AN000168 14,290.00 €	AN000169 16,090.00 €	4
	4	AN000170 11,200.00 €	AN000171 13,400.00 €	AN000172 15,470.00 €	AN000173 17,570.00 €	AN000174 19,650.00 €	5
	5	AN000175 13,690.00 €	AN000176 16,080.00 €	AN000177 18,450.00 €	AN000178 20,840.00 €	AN000179 23,200.00 €	6
	6	AN000180 16,080.00 €	AN000181 18,750.00 €	AN000182 21,420.00 €	AN000183 24,110.00 €	AN000184 26,780.00 €	8
Max. Number of windows side A		2	4	5	6	8	

## 4 Extraction cabins

### 4.2 Accessories

Safety glass viewing pane	Art. no.	Price
<b>Viewing pane</b> 600 mm × 800 mm, VSG 8	AN000185	<b>320.00</b>
<b>Viewing pane</b> 600 mm × 1000 mm, VSG 8	AN000186	<b>350.00</b>
<b>Front pane red</b> , DIN 1598, Protective pane for viewing window, 600 × 800 mm	AN000187	<b>310.00</b>

Lamellae curtain	Art. no.	Price
Clear/transparent, Strip width 300/2		
<b>Lamellae curtain</b> , 2700 mm high, fixed, PVC, per metre	AN000188	<b>300.00</b>
<b>Lamellae curtain</b> , 2700 mm high, sliding, PVC, per metre	AN000189	<b>370.00</b>
<b>Lamellae curtain</b> , 2200 mm high, fixed, PVC, per metre	AN000190	<b>260.00</b>
<b>Lamellae curtain</b> , 2200 mm high, sliding, PVC, per metre	AN000191	<b>330.00</b>

Lamellae curtain	Art. no.	Price
Bronze/transparent/Welding place (green or red), Strip width 300/2		
<b>Lamellae curtain</b> , 2700 mm high, fixed, DIN 1598, per metre	AN000192	<b>390.00</b>
<b>Lamellae curtain</b> , 2700 mm high, sliding, DIN 1598, per metre	AN000193	<b>450.00</b>
<b>Lamellae curtain</b> , 2200 mm high, fixed, DIN 1598, per metre	AN000194	<b>360.00</b>
<b>Lamellae curtain</b> , 2200 mm high, sliding, DIN 1598, per metre	AN000195	<b>420.00</b>

Lighting	Art. no.	Price
<b>Electrical connection set for lighting</b>	AN000196	<b>270.00</b>
<b>LED Damp-proof luminaire IP65</b>	AN000197	<b>350.00</b>
<b>LED Recessed light panel IP54</b> , approx. 600 × 600 mm	AN000198	<b>330.00</b>
<b>LED ATEX Lighting</b>	AN000199	<b>On request</b>

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Curtains / Lamellas

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Safety systems

Post-filters

Spiral seam pipes/  
steel pipes



# 5 Soundproof partition walls

ESTA soundproof partition walls offer spatial separation and sound insulation in one. They separate or enclose noisy work areas, prevent the spread of noise pollution, and also serve as privacy screens.

Their mobility also makes them ideal for workplaces that are not permanently defined or temporary. Soundproof partition walls are often used during noisy processes such as grinding, flexing, sawing, welding etc.

## Main body

The sound insulation partition wall system consists of wall elements in non-combustible design.

The element thickness is 100 mm. The elements are filled with non-combustible mineral insulation material, DIN 4102, surface with abrasion-resistant, black glass fleece.

In the version with sound insulation on one side, this is covered by a galvanized expanded metal. A version with sound insulation on both sides is also available. We offer our partition walls intended as room partitions with the



smooth sheet metal side galvanized.

For use in welding environments, we recommend the powder-coated version in RAL 7016. This reduces reflection, thus providing a safer environment. As an option, we offer the soundproof

partition walls with viewing or protective panes.

The sound insulation partition walls are available in a stationary version for floor mounting or a mobile version with wheels. Four double casters with brakes ensure mobility and stability at the same time.

The support brackets coated in RAL 1021 serve as a visual highlight. This allows them to be easily recognized even in rooms that are not well lit, and reduces the risk of tripping.

## Fixing

The partitions are fixed to the floor by means of stable steel profiles and impact anchors. The basic modules are supplied with four support brackets. For space-saving assembly, two-piece supports can be used at connection points.

## Connectors

To connect fixed partitions to create a modular system, we offer both straight and corner connectors. All connection sets include the connector and the necessary screws to make a stable connection. The connectors are always coated in RAL 7016.

### Use

- » Sound insulation and spatial separation of workplaces

### Characteristics

- » Modular construction
- » Mobile version
- » Excellent privacy and sound insulation
- » Optionally with anti-reflective coating

### Use

- » Wide range of applications
- » Sound insulation and separation in one
- » No noise pollution of neighboring areas
- » Minimal assembly
- » Particularly suitable for non-fixed, mobile or temporary workplaces

## 5.1 Main body

### One-sided sound insulation

Width	Height – mm	Height – mm Mobile version	Galvanised version	Anti-reflective version
1500 mm	2250	2390	AN000268 €1,120.00	AN000269 €1,280.00
2000 mm	2250	2390	AN000270 €1,290.00	AN000271 €1,470.00
2500 mm	2250	2390	AN000272 €1,460.00	AN000273 €1,645.00

### Two-sided sound insulation

Width	Height – mm	Height – mm Mobile version	Galvanized version	Anti-reflective version
1500 mm	2250	2390	AN000274 €1,265.00	AN000275 €1,420.00
2000 mm	2250	2390	AN000276 €1,475.00	AN000277 €1,560.00
2500 mm	2250	2390	AN000278 €1,730.00	AN000279 €1,795.00

## 5.2 Accessories

### Optional extras

	Item no.	Price
<b>Viewing panes</b> 600 mm × 800 mm*	AN000280	245.00
<b>Welding protection panes</b> 600 mm × 800 mm	AN000281	305.00
<b>Mobile version with wheels</b>	AN000282	295.00

\* For a width of 1,500 mm, one viewing/protection pane is possible, for a width of 2,000 mm or more, two viewing/protection panes are possible.

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

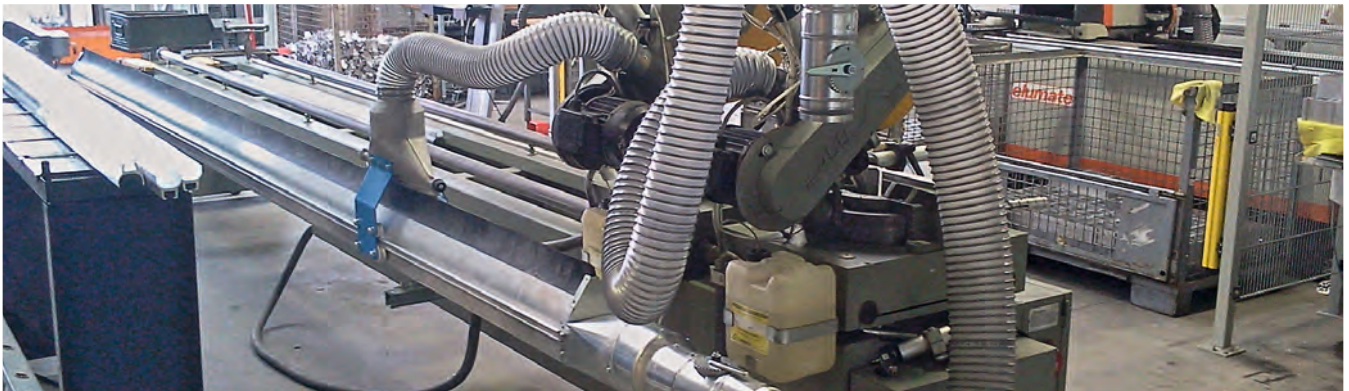
Post-filters

Spiral seam pipes/  
steel pipes

# 6 Slotted suction channels

Slotted suction channels enable flexible extraction of dust and smoke on one axis. They are particularly suitable for multiple workplaces where work is not carried simultaneously and thus separate extraction is not required. This allows connection of multiple extraction locations via one suction channel and operation with only one sensing element. This saves space and provides an inexpensive alternative to developing several workplaces with separate extraction systems.

Due to their modular design, slotted channels can be extended as required and aligned with new requirements. The extraction capacity can always be made available at the required workplace over the entire channel length by means of suction carriages (optional) – airflow rates up to 4,000 m<sup>3</sup>/h can thus be realised.



Slotted vacuum channel on a belt sander for the extraction of aluminium grinding dust

## Application

- » For connecting to extraction systems, fans or pipe systems for flexible extraction at several or large area workplaces

## Special features

- » Modular construction allows subsequent extension of slotted vacuum
- » The suction carriage can be optionally equipped with an extraction arm

## Benefits

- » It extends over the entire length of the slotted vacuum channel
- » Cost savings through the use of a suction unit for several workplaces
- » Quick and easy installation
- » Low space requirement



Slotted suction channels with suction carriage (optional) are available with different nominal diameters to suit the application

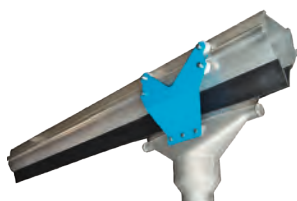


Slotted vacuum channel for the extraction of metal chippings

## 6 Slotted suction channels

### 6.1 Slotted suction channels for medium pressure

#### Aluminium-slotted vacuum channel system AS 200



The AS 200 system is suitable for the Ø100 mm, Ø125 mm and Ø150 mm suction carriages. The max. air flow is approx. 1,800 m³/h. Cross-section 200 cm². The delivery lengths are 4.0 m and 6.0 m. Installation lengths of 50.0 m and more are possible.

	Art. no.	Price €
Aluminium slotted vacuum channel AS 200	15008327	242.00*
End stop system AS, rubber-cushioned	15005175	18.50**
End cover	15008330	35.90

\* Price per m / \*\* Price per set (2 pieces)



#### "rollfix" suction carriage

With eight ball bearing rollers and aluminium caste nozzle for connecting a hose

Connection Ø	Art. no.	Price €
DN 100	15013007	750.00
DN 125	15015477	1,050.00
DN 150	15006884	680.00

#### Connection nozzle for exhaust air pipe

	Art. no.	Price €
Connection nozzle for exhaust air pipe DN 160 mm, front-mounted on the slotted vacuum channel	15015296	239.00
Connection nozzle for exhaust air pipe DN 160 mm, mounted on the slotted vacuum channel	15015467	226.00
Connection nozzle for exhaust air pipe DN 200 mm, mounted on the slotted vacuum channel	15008331	221.00

#### Channel connecting sleeve \*\*\*

Art. no.	Price €
15008328	35.90

\*\*\* required from a length of 8.0 m

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

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Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

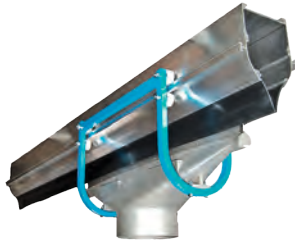
Post-filters

Spiral seam pipes/  
steel pipes

## 6 Slotted suction channels

### 6.1 Slotted suction channels for medium pressure

#### Aluminium-slotted vacuum channel system AS 300



The AS 300 system is suitable for the Ø 125 mm, Ø 150 mm and Ø 200 mm suction carriages. The max. air flow is approx. 2,500 m<sup>3</sup>/h. Cross-section 300 cm<sup>2</sup>. The delivery lengths are 4.0 m and 6.0 m.

	<i>Art. no.</i>	<i>Price €</i>
Aluminium slotted vacuum channel AS 300	15015974	<b>377.00*</b>
End stop system AS, rubber-cushioned	15005175	<b>18.50**</b>
End cover	15015978	<b>44.00</b>
Channel stiffening system AS, every 1.0 m	15008816	<b>22.10</b>

\* Price per m / \*\* Price per set (2 pieces)



#### "rollfix" suction carriage

With eight ball bearing rollers and aluminium caste nozzle for connecting a hose

	<i>Connection Ø</i>	<i>Art. no.</i>	<i>Price €</i>
	DN 125	15015477	<b>750.00</b>
	DN 150	15006884	<b>680.00</b>
	DN 200	15005180	<b>1,180.00</b>

#### Connection nozzle for exhaust air pipe

	<i>Art. no.</i>	<i>Price €</i>
Connection nozzle for exhaust air pipe DN 160 mm, front-mounted on the slotted vacuum channel	15015975	<b>240.00</b>
Connection nozzle for exhaust air pipe DN 200 mm, front-mounted on the slotted vacuum channel	15015976	<b>245.00</b>
Connection nozzle for exhaust air pipe DN 200 mm, mounted on the slotted vacuum channel	15015468	<b>213.00</b>
Connection nozzle for exhaust air pipe DN 250 mm, mounted on the slotted vacuum channel	15015469	<b>237.00</b>

#### Channel connecting sleeve \*\*\*

	<i>Art. no.</i>	<i>Price €</i>
	15015977	<b>44.00</b>

\*\*\* required from a length of 8.0 m

## 6 Slotted suction channels

### 6.1 Slotted suction channels for medium pressure

#### Aluminium-slotted vacuum channel system AS 440

The AS 440 system is suitable for the Ø 125 mm, Ø 150 mm and Ø 200 mm suction carriages. The max. air flow is approx. 4,000 m³/h. Cross-section 440 cm². The delivery lengths are 4.0 m and 6.0 m.



	Art. no.	Price €
Aluminium slotted vacuum channel AS 440	15005171	560.00*
End stop system AS, rubber-cushioned	15005175	18.50**
End cover	15008111	63.70
Channel stiffening system AS, every 1.0 m	15008816	22.10

\* Price per m / \*\* Price per set (2 pieces)

#### "rollfix" suction carriage

With eight ball bearing rollers and aluminium caste nozzle for connecting a hose

Connection Ø	Art. no.	Price €
DN 125	15015477	750.00
DN 150	15006884	680.00
DN 200	15005180	1,180.00

#### Connection nozzle for exhaust air pipe

	Art. no.	Price €
Connection nozzle for exhaust air pipe DN 250 mm, Front-mounted on the slotted vacuum channel	15015470	420.00
Connection nozzle for exhaust air pipe DN 250 mm, mounted on the slotted vacuum channel	15015469	237.00
Connection nozzle for exhaust air pipe DN 315 mm, mounted on the slotted vacuum channel	15008137	263.00

#### Channel connecting sleeve \*\*\*

	Art. no.	Price €
	15005170	63.70

\*\*\* required from a length of 8.0 m

## 6 Slotted suction channels

### 6.2 Accessories for slotted suction channels for medium pressure

#### "rollfix" suction carriage



With eight ball bearing rollers and aluminium cast nozzle for connecting a hose

Connection Ø	Art. no.	Price €
DN 250*	15015478	2,940.00

\* Sheet steel nozzle with chassis

#### "Compact" balancer



for pulling up the suction hose

Extension length mm	Tensile force kg	Art. no.	Price €
2,500	6 – 8	15015479	820.00
2,500	8 – 10	15015480	900.00
2,500	10 – 14	15015481	980.00
3,000	6 – 8	15015482	1,050.00
3,000	8 – 10	15015483	1,050.00
3,000	10 – 14	15015484	1,050.00

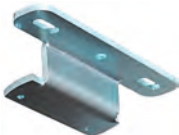
#### Hose bracket



including chain link and hook

Connection Ø	Art. no.	Price €
DN 100	15015486	77.60
DN 125	15015487	82.20
DN 150	15015488	91.60
DN 200	15015489	188.00

#### Ceiling mount



for swivelling in, suitable for securing the slotted suction channel to ceiling or wall bracket, coated

Art. no.	Price €
15005179	39.40

#### Universal holder



for fixing the slotted suction channel to suspension constructions, coated

Art. no.	Price €
15015475	32.40



## 6 Slotted suction channels

### 6.2 Accessories for slotted suction channels for medium pressure

#### Wall bracket

made from profiled sheet steel, for wall mounting of the slotted suction channel



<i>Length mm</i>	<i>Art. no.</i>	<i>Price €</i>
500	15015471	<b>89.10</b>
600	15015472	<b>141.00</b>
800	15015473	<b>162.00</b>
1000	15015474	<b>183.00</b>

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

**Slotted suction  
channels**

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

# 7 Extraction accessories

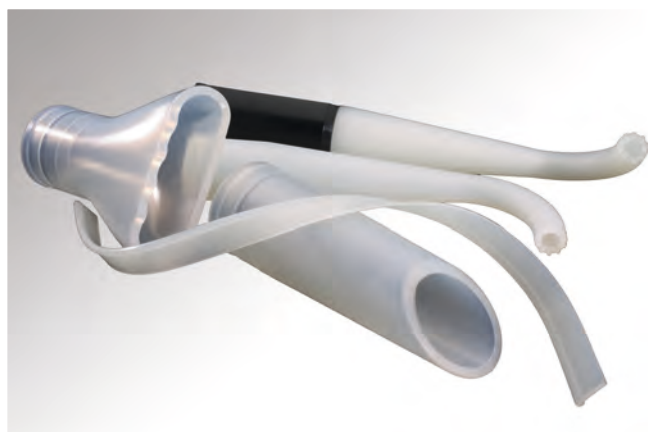


ESTA has a wide range of suction accessories, distinguished by their flexible application options for a great variety of different applications. Nozzles, guide tubes and suction hoses and other accessory parts are available in three nominal widths: DN 38 mm, DN 50 mm and DN 70 mm.

Both industrial vacuum cleaners and central high-vacuum extraction systems can be fitted with the ESTA extraction accessories. The cone plug-in system enables easy handling and offers a great variety of different combinations of the individual components. Use with different brands is thus possible without any problems.



Accessory parts, which are identified as "electrically conductive", are suitable for use in ATEX zones 21/22



The program also includes special versions in silicone for the food industry and temperature ranges up to 200 ° C

## Application

- » For equipping industrial dust extraction systems and central high-vacuum extraction systems

## Special features

- » Available in nominal diameters DN 38, DN 50, DN 70 mm
- » Silicone nozzles are available for the food and pharmaceutical industries as well as for high temperature ranges

## Benefits

- » Wide selection of extraction nozzles for widely different applications
- » Easy to use and multiple combination possibilities thanks to plug-in system
- » Can be used in ATEX zones 21/22



Crevice nozzle for extracting pharmaceutical dusts



ESTA DUROSOG with antistatic suction hose, length 3.0 m, and oblique-tip nozzle for extracting textile fibres



ESTA EUROSOG with guiding tube and floor nozzle for extracting metal chippings

## 7 Extraction accessories

### 7.1 Nominal diameter 38 mm

Art. no.

Price €

#### Oblique-tip nozzle



made from electrically conductive rubber compound, including connecting tube, total length 290 mm

30007768

30.10

made from silicone, including connecting tube, total length 290 mm

30007769

33.60

made from electrically conductive rubber compound, suction opening 20 × 60 mm, total length 240 mm

06002473

19.70

#### Wide nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening 110 × 25 mm, total length 280 mm

30007784

35.90

made from silicone, including connecting tube, suction opening 110 × 25 mm, total length 280 mm

30007785

66.00

#### Crevice nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening Ø 13 mm, total length 400 mm

30007913

61.40

made from silicone, including connecting tube, suction opening Ø 13 mm, total length 400 mm

30007914

70.70

#### Universal adapter



made from electrically conductive rubber compound, including connecting tube, graduated from 38 mm to 15 mm, total length 400 mm

30007915

46.30

## 7 Extraction accessories

### 7.1 Nominal diameter 38 mm

**Art. no.**

**Price €**

#### Rake nozzle



made from electrically conductive rubber compound, including connecting pipe, suction opening 210 × 25 mm, total length 180 mm

30007927

**41.70**

made from silicone, including connecting pipe, suction opening 210 × 25 mm, total length 180 mm

30007930

**45.30**

#### Vacuum brush



Nylon bristles, Ø82 mm, including connecting tube

30007776

**100.80**

Nylon bristles interspersed with brass bristles, Ø82 mm, electrically conductive, including connecting tube

30007778

**117.00**

Natural hair bristles, Ø82 mm, including connecting tube

30007777

**106.00**

Natural hair bristles interspersed with brass bristles, Ø82 mm, electrically conductive, including connecting tube

30007779

**123.00**

#### Bristled ring for vacuum brush



Nylon bristles, Ø82 mm

06002448

**66.00**

Nylon bristles interspersed with brass bristles, electrically conductive, Ø82 mm

06002450

**78.80**

Natural hair bristles, Ø82 mm

06002449

**71.80**

Natural hair bristles interspersed with brass bristles, electrically conductive, Ø82 mm

06002451

**81.10**

## 7 Extraction accessories

### 7.1 Nominal diameter 38 mm

	Art. no.	Price €
<b>Connecting pipe</b>		
	galvanised, length 120 mm	
	06002464	11.60
	Stainless steel, length 120 mm	
	06002465	27.80
<b>Hose sleeve accessories</b>		
	with internal thread, for PE hose, electrically conductive	
	06002460	18.50
	with internal thread, for PU hose, electrically conductive	
	06002461	18.50
<b>ESTA vacuum cleaner hose sleeve</b>		
	boiler side, with internal thread, for PE hose, electrically conductive	
	06002547	15.10
	boiler side, with internal thread, for PU hose, electrically conductive	
	06002548	15.10
<b>Hose coupling</b>		
	with internal thread, for PE hose, black, electrically conductive	
	03000508	34.80
	with internal thread, for PU hose, electrically conductive	
	03004407	34.80
<b>Rubber bushing for flap valve DN 50</b>		
	with internal thread, for PE hose, 38 mm	
	06001048	22.70

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 7 Extraction accessories

### 7.1 Nominal diameter 38 mm

**Art. no.**

**Price €**

#### Suction hose



PE hose, antistatic, light, highly flexible, weather-resistant and wear-resistant, high internal smoothness

06000009

**20.80**

PU hose

06001108

**26.30**

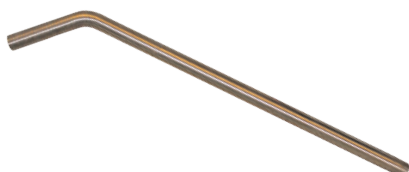
#### Guide pipe



chrome-plated steel, 3-part, length 1,400 mm

30007912

**76.40**



Stainless steel, bent, length 1,320 mm

02007591

**147.00**

#### Floor nozzle



two height-adjustable floor rollers, cylindrical connection, electrically conductive, width 370 mm

30007924

**149.00**

## 7 Extraction accessories

### 7.2 Nominal diameter 50 mm

**Art. no.**
**Price €**

#### Oblique-tip nozzle



PVC, non-conductive, length 350 mm

06000701

**26.70**

made from electrically conductive rubber compound, including connecting tube, total length 400 mm

30007766

**30.10**

made from silicone, including connecting tube, total length 400 mm

30007767

**33.60**

made from electrically conductive rubber compound, Ø45 mm, length 246 mm

06002458

**18.50**

#### Wide nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening 110 × 25 mm, total length 270 mm

30007781

**31.30**

made from silicone, including connecting tube, suction opening 110 × 25 mm, total length 270 mm

30007783

**62.50**

#### Crevice nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening Ø13 mm, total length 400 mm

30007916

**61.40**

made from silicone, suction opening Ø13 mm, total length 400 mm

30007917

**70.70**

Extraction arms

Extraction hoods

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Curtains / Lamellas

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partition walls

 Slotted suction  
channels

**Extraction  
accessories**

Extraction hoses

 Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

 Spiral seam pipes/  
steel pipes



## 7 Extraction accessories

### 7.2 Nominal diameter 50 mm

**Art. no.**

**Price €**

#### Universal adapter



made from electrically conductive rubber compound, including connecting tube, graduated from 50 mm to 15 mm, total length 400 mm

30007918

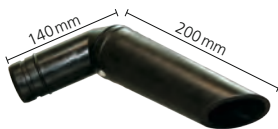
**45.30**

made from silicone, including connecting tube, Graduated from 50 mm to 15 mm, total length 400 mm

30007919

**73.00**

#### Angled oblique-tip nozzle



made from electrically conductive rubber compound

06002459

**63.70**

#### Rake nozzle



made from electrically conductive rubber compound, including connecting pipe, suction opening 210 × 25 mm, total length 180 mm

30007928

**44.00**

made from silicone, including connecting pipe, suction opening 210 × 25 mm, total length 180 mm

30007931

**50.90**

#### Vacuum brush



Nylon bristles, Ø 100 mm, including connecting pipe

30007774

**132.00**

Nylon bristles interspersed with brass bristles, Ø 100 mm, electrically conductive, including connecting pipe

30007772

**103.10**

Natural hair bristles, Ø 100 mm, including connecting pipe

30007775

**145.00**

Natural hair bristles interspersed with brass bristles, Ø 100 mm, electrically conductive, including connecting pipe

30007773

**117.00**

## 7 Extraction accessories

### 7.2 Nominal diameter 50 mm

Art. no.

Price €

#### Bristled ring for vacuum brush



Nylon bristles, Ø 100 mm

06002444

69.50

Nylon bristles interspersed with brass bristles, Ø 100 mm, electrically conductive

06002446

90.30

Natural hair bristles, Ø 100 mm

06002445

77.60

Natural hair bristles interspersed with brass bristles, Ø 100 mm, electrically conductive

06002447

100.80

#### Connecting tube



galvanised, length 120 mm

06002463

11.60

Stainless steel, length 120 mm

06002392

30.10

#### Hose sleeve



with internal thread, for PE hose, electrically conductive

06002298

21.00

with internal thread, for PU hose, electrically conductive

06002405

20.80

Rotary coupling, PVC, for PE hose, non-conductive

06000354

15.10

## 7 Extraction accessories

### 7.2 Nominal diameter 50 mm

**Art. no.**

**Price €**

#### Hose coupling



with internal thread, for PE hose, black, electrically conductive

03000509

**34.80**

with internal thread, for PU hose, electrically conductive

03000510

**34.80**

#### Rubber bushing for flap valve



with internal thread, for PE hose, DN 50 mm

06001047

**24.00**

#### Suction hose



PE hose, antistatic, light, highly flexible, weather-resistant and wear-resistant, high internal smoothness

06002756

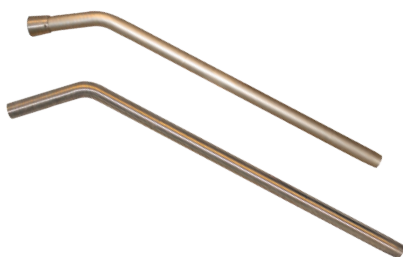
**23.20**

PU hose

06000303

**28.70**

#### Suction tube



Aluminium, bent, length 1,200 mm

30000572

**169.00**



Stainless steel, 2-part, electrically conductive, length 1,400 mm

30006972

**176.00**

## 7 Extraction accessories

### 7.2 Nominal diameter 50 mm

	Art. no.	Price €
<b>Suction tube extension</b>		
	Aluminium, length 1,500 mm	
	11000004	90.30
<b>Floor nozzle</b>		
	two height-adjustable floor rollers, cylindrical connection, electrically conductive, width 500 mm	
	30000376	201.00

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

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extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 7 Extraction accessories

### 7.3 Nominal diameter 70 mm

**Art. no.**

**Price €**

#### Diagonal tube nozzle



made from electrically conductive rubber compound, including connecting tube, total length 350 mm

30007770

**60.20**

made from silicone, including connecting tube, total length 350 mm

30007771

**69.50**

#### Flat nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening 110 × 25 mm, total length 320 mm

30007782

**75.30**

#### Rake nozzle



made from electrically conductive rubber compound, including connecting tube, suction opening 210 × 25 mm, total length 200 mm

30007929

**77.60**

made from silicone, including connecting tube, suction opening 210 × 25 mm, total length 200 mm

30007932

**86.80**

#### Universal adapter



made from electrically conductive rubber compound, including connecting tube, graduated from 70 mm to 15 mm, total length 450 mm

30007920

**70.70**

## 7 Extraction accessories

### 6.3 Nominal diameter 70 mm

Art. no.

Price €

#### Connecting tube



galvanised, length 140 mm

06002462

16.20

Stainless steel, length 140 mm

06000711

34.80

#### Hose sleeve



with internal thread, for PE hose, electrically conductive

06002397

34.80

with internal thread, for PU hose, electrically conductive

06002404

34.80

#### Suction hose



PE hose, antistatic

06002299

41.70

PU hose

06000307

29.40

Extraction arms

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Protective walls  
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Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

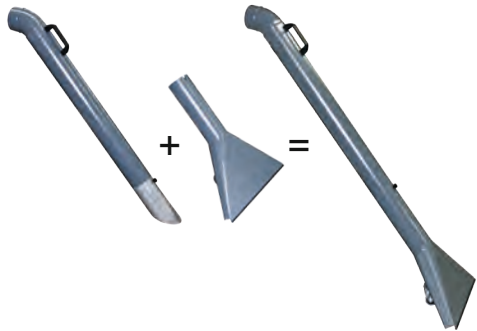
Safety systems


Post-filters

Spiral seam pipes/  
steel pipes

# 7 Extraction accessories

## 7.3 Floor cleaning set



	Art. no.	Price €
<b>Floor cleaning set</b>		
	Nominal diameter 70 mm, opening 30 × 300 mm	
	30007490	333.00
	Nominal diameter 100 mm, opening 40 × 400 mm	
	30000894	362.00

<b>Suction lance</b>		
for packing flakes (styrofoam chips)		
	made of sheet steel, galvanised, nominal diameter 125 mm	
	30005536	242.00




## 7 Extraction accessories

### 7.4 Filter bags made from paper/dust collecting cardboard

				DUSTOMAT 4-10	DUSTOMAT 4-24	DUSTOMAT-100 S	DUSTOMAT-120 S	DUSTOMAT-140 S	DUSTOMAT-160 S	MOBEX P	MOBEX F	FILTOWER (all models)	DUROSOG-W	DUROSOG-ID	DUROSOG-II-D	COMPASOG SR	COMPASOG ST	MULTISOG-1, -2, -3, -4	MULTISOG-SRM	PRETTYBOY (manufactured up to 2006)	PRETTYBOY (manufactured from 2006)	ESTA FURNACE VACUUM	RG 100	RG 200	RG 300	Mobile dust extractors RG 100 / RG 200 / RG 300
Article	Order no.	Price €																								
 <b>Filter bag</b> Material: Paper 5 pieces per set	30000587	28.10																	•							
 <b>Filter bag</b> Material: Paper 10 pieces per set	30000373	31.50																	•			•				
 <b>Filter bag</b> Material: Paper 10 pieces per set	30000584	34.60																		•						
 <b>Filter bag</b> Material: Paper 10 pieces per set	30000336	34.60																			•					
 <b>Filter bag</b> Material: Paper 10 pieces per set	30000566	41.10			•								•	•												
 <b>Filter bag</b> Material: Paper 5 pieces per set	30000624	43.10				•	•	•							•											
 <b>Filter bag</b> Material: Paper 6 pieces per set	30000589	50.40																					•	•	•	•
 <b>Dust collection box</b> Material: Cardboard 8 pieces per set including cover	30008311	99.80		•	•					•	•	•				•	•									
 <b>Reusable dust container</b> Material: Sheet steel 1 piece, without lid	30008816	197.00		•	•					•	•	•				•	•									
 <b>Reusable dust container</b> Material: Stainless steel 1 piece, without lid	30008922	390.00		•	•					•	•	•				•	•									

## 7 Extraction accessories

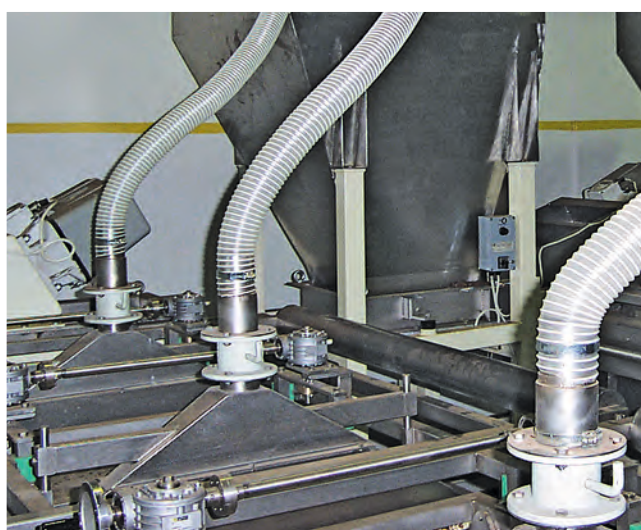
### 7.5 Dust collection bags made from PE-LD

Article	Order no.	Price €	DUSTOMAT-HMS-10	DUSTOMAT-14/-15/-16M	DUSTOMAT-21 to -67	DUSTOMAT-21 to -67 ATEX	DUSTOMAT T-5	DUSTOMAT T-10 and ATEX	DUSTOMAT P-10/P-20 and ATEX	COMPEX S 6.2	DUSTOVAC-I-D/-II-D	DUSTOVAC 5.5/7.5/8.5/13.0/-III-D/-IV-D	EUROSOG-W/-I-D/-II-D	WHISPERSOG-2.2/-3.0/FM/FA	WHISPERSOG-2.2/-3.0 JET	PRE-SEPARATOR 100I	PRE-SEPARATOR 200I	SRF K-10	SRF K-15	RG 100	RG 200	RG 300	STYROSOG 1000	STYROSOG 2000
 <b>Dust collection bag</b> Material: PE-LD 10 pieces per set	30000588	29.30	•	•							•		•	•	•									
 <b>Dust collection bag</b> Material: PE-LD 10 pieces per set	30000567	37.90			•							•		•		•								
 <b>Dust collection bag</b> Material: PE-LD, electrically conductive 10 pieces per set	30007002	38.90					•	•	•	•														
 <b>Dust collection bag</b> Material: PE-LD, electrically conductive 10 pieces per set	30006113	67.20			•																			
 <b>Dust collection bag</b> Material: PE-LD 10 pieces per set	30000590	31.40																		•				
 <b>Dust collection bag</b> Material: PE-LD 10 pieces per set	30000575	37.90																				•	•	•
 <b>Drawstring bag for SRF K</b> Material: PE-LD 5 pieces per set	30000995	12.60																•	•					

# 8 Extraction hoses



Hoses are the most common conveyor system for solid, liquid and gaseous media in industry and trade. Their flexibility and their absorbing and sound-dampening properties often replace or supplement pipelines. ESTA offers a wide range of extraction hoses that also meet specific requirements. High temperature hoses and extraction hoses that are especially suitable for the food and pharmaceutical industries are also available in addition to our standard hoses. To achieve optimum extraction performance, each hose must correspond as well as possible with the operating conditions to which it is subjected. Therefore, select a hose based on your actual requirements and then decide on type, quality and size.



PU hoses for connecting the extraction hoods to the pipe system in a metalworking shop



ESTA DUSTOMAT-10 with PU hose installed on a buzz saw for extraction of wood dust

## Application

- » For connection to filter systems and pipeline systems
- » For equipping extraction arms

## Special features

- » Wide range of nominal diameters
- » Hoses for special applications, including for food and pharmaceutical industries

## Benefits

- » High flexibility in the extraction process
- » Optimum extraction capacity when conveying dust and smoke
- » High finishing quality
- » Can be used in ATEX zones



Special anti-static hose versions are suitable for use in ATEX zones

## 8 Extraction hoses

### 8.1 Flexible suction hosesuper-light version

#### Material:

- » Helix: Spring steel wire embedded in the wall
- » Hose material: PVC-coated polyester fabric, flame retardant in accordance with DIN 4102-B1
- » Wall thickness approx. 0.25 mm

#### Material properties:

- » Highly flexible and compressible 6:1
- » Fabric reinforced
- » Good chemical resistance
- » Good resistance to alkalis and acids
- » Flame-retardant
- » Temperature-resistant: approx. -30°C to approx. +100°C



#### Applications:

- » Extraction and blower hose, particularly suitable for:
  - welding fume extraction
  - ventilation and air conditioning technology

<i>Inner Ø mm</i>	<i>Outer Ø mm</i>	<i>Bend radius (Hose middle) mm</i>	<i>Negative pressure bar</i>	<i>Manufactured length m</i>	<i>Art. no.</i>	<i>Price in € per m</i>
50	53	53	0.145	10.0	06000779	<b>22.10</b>
60	63	63	0.115	10.0	06000512	<b>23.10</b>
70	73	73	0.085	10.0	06000511	<b>24.20</b>
83	86	86	0.070	10.0	06000466	<b>25.20</b>
100	103	103	0.050	10.0	06000467	<b>27.30</b>
125	128	128	0.035	10.0	06000468	<b>32.60</b>
140	143	143	0.035	10.0	06000469	<b>37.80</b>
150	153	153	0.035	10.0	06000470	<b>39.90</b>
160	163	163	0.025	10.0	06000471	<b>42.00</b>
180	183	183	0.020	10.0	06000472	<b>46.20</b>
200	203	203	0.020	10.0	06000473	<b>53.60</b>
224	227	227	0.020	10.0	06000513	<b>64.10</b>
250	254	254	0.010	10.0	06000474	<b>68.30</b>
280	284	284	0.010	10.0	06000420	<b>77.70</b>
300	304	304	0.005	10.0	06000475	<b>83.00</b>

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

### 8.1 Flexible suction hosesuper-light version

#### Material:

- » Helix: Spring steel wire embedded in the wall
- » Hose material: PVC-coated polyester fabric, flame retardant in accordance with DIN 4102-B1
- » Wall thickness approx. 0.25 mm

#### Material properties:

- » Highly flexible and compressible 6:1
- » Fabric reinforced
- » Good chemical resistance
- » Good resistance to alkalis and acids
- » Flame-retardant
- » Temperature-resistant: approx. -30°C to approx. +100°C



#### Applications:

- » Extraction and blower hose, particularly suitable for:
  - welding fume extraction
  - ventilation and air conditioning technology

<i>Inner Ø mm</i>	<i>Outer Ø mm</i>	<i>Bend radius (Hose middle) mm</i>	<i>Negative pressure bar</i>	<i>Manufactured length m</i>	<i>Art. no.</i>	<i>Price in € per m</i>
50	53	53	0.145	10.0	06000779	<b>22.10</b>
60	63	63	0.115	10.0	06000512	<b>23.10</b>
70	73	73	0.085	10.0	06000511	<b>24.20</b>
83	86	86	0.070	10.0	06000466	<b>25.20</b>
100	103	103	0.050	10.0	06000467	<b>27.30</b>
125	128	128	0.035	10.0	06000468	<b>32.60</b>
140	143	143	0.035	10.0	06000469	<b>37.80</b>
150	153	153	0.035	10.0	06000470	<b>39.90</b>
160	163	163	0.025	10.0	06000471	<b>42.00</b>
180	183	183	0.020	10.0	06000472	<b>46.20</b>
200	203	203	0.020	10.0	06000473	<b>53.60</b>
224	227	227	0.020	10.0	06000513	<b>64.10</b>
250	254	254	0.010	10.0	06000474	<b>68.30</b>
280	284	284	0.010	10.0	06000420	<b>77.70</b>
300	304	304	0.005	10.0	06000475	<b>83.00</b>

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75



## 8 Extraction hoses

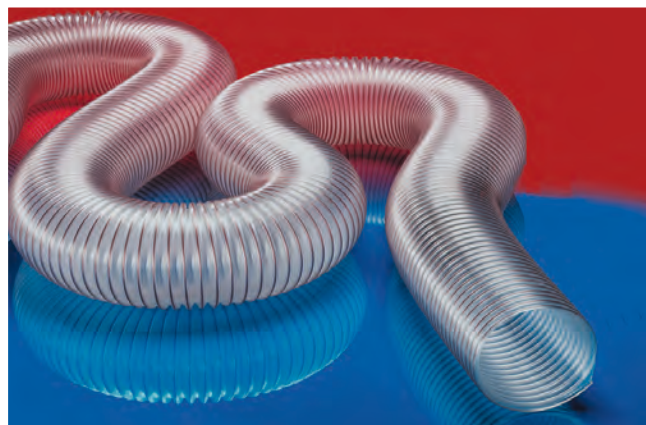
### 8.2 PU spiral hosesuper-light version

#### Material:

- » Helix: Spring steel wire firmly embedded in the wall
- » Hose material: Polyurethane, flame retardant in accordance with DIN 4102-B1
- » Wall thickness approx. 0.4mm

#### Material properties:

- » Highly flexible and compressible 4:1
- » High resistance to abrasion
- » Good chemical resistance
- » Good resistance to oil and petrol
- » Flame retardant in accordance with: UL94-VO, DIN 4102-B1
- » in accordance with TRBS 2153 (formerly BGR 132) for electrostatic discharge by earthing the spiral
- » Temperature-resistant: approx. -40°C to approx. +90°C, briefly to approx. +125°C



#### Applications:

- » for extraction of wood dust and chippings from woodworking machines
- » for abrasive solids such as dust, powder, fibres and chippings
- » for dust extraction systems

Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	58	58	0.240	10.0	06000460	27.30
65	73	73	0.170	10.0	06001312	29.40
70	78	78	0.140	10.0	06000502	29.40
80	88	88	0.120	10.0	06000510	33.60
100	108	108	0.080	10.0	06000461	35.70
125	133	133	0.055	10.0	06000462	44.10
140	148	148	0.050	10.0	06000463	49.40
150	158	158	0.050	10.0	06000464	52.50
160	168	168	0.045	10.0	06000465	55.70
180	188	188	0.035	10.0	06000504	79.80
200	208	208	0.035	10.0	06001776	80.90
225	233	233	0.025	10.0	06001434	81.90
250	258	258	0.015	10.0	06000446	86.10
280	288	288	0.010	10.0	06000536	94.50
300	309	309	0.010	10.0	06000633	107.00

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

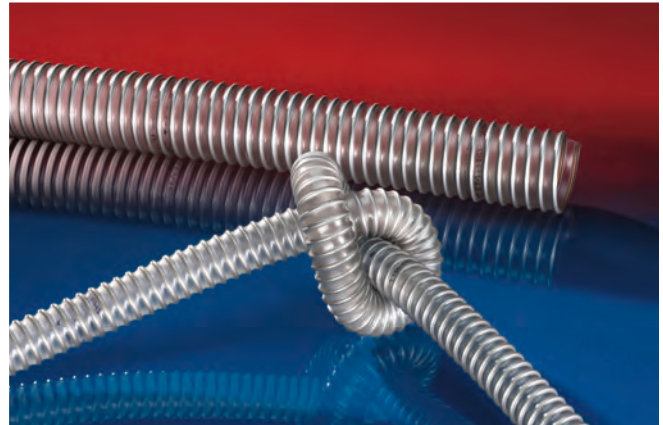
### 8.2 PU spiral hose heavy-duty version

#### Material:

- » Helix: Spring steel wire firmly embedded in the wall
- » Hose material: Polyurethane, flame retardant in accordance with DIN 4102-B1
- » Wall thickness approx. 0.9 mm

#### Material properties:

- » Flexible
- » High resistance to abrasion
- » Good chemical resistance
- » Good resistance to oil and petrol
- » Flame retardant in accordance with: UL94-VO, DIN 4102-B1
- » in accordance with TRBS 2153 (formerly BGR 132) for electrostatic discharge by earthing the spiral
- » Temperature-resistant: approx. -40°C to approx. +90°C, briefly to approx. +125°C



#### Applications:

- » for extraction of wood dust and chippings from woodworking machines
- » for abrasive solids such as dust, powder, fibres and chippings
- » for dust extraction systems

<i>Inner Ø mm</i>	<i>Outer Ø mm</i>	<i>Bend radius (Hose middle) mm</i>	<i>Negative pressure bar</i>	<i>Manufactured length m</i>	<i>Art. no.</i>	<i>Price in € per m</i>
50	58	64	0.365	10.0	06000303	<b>28.70</b>
65	73	80	0.255	10.0	06000306	<b>28.40</b>
70	79	87	0.210	10.0	06000307	<b>29.40</b>
80	89	98	0.175	10.0	06000816	<b>33.60</b>
100	109	120	0.120	10.0	06000309	<b>35.70</b>
125	134	147	0.085	10.0	06000310	<b>44.10</b>
140	149	164	0.085	10.0	06000311	<b>49.40</b>
150	159	175	0.075	10.0	06000515	<b>52.50</b>
160	169	186	0.065	10.0	06000312	<b>55.70</b>
180	189	208	0.055	10.0	06000299	<b>79.80</b>
200	209	230	0.055	10.0	06001144	<b>80.90</b>
224	233	256	0.040	10.0	06001121	<b>81.90</b>
250	259	285	0.020	10.0	06000298	<b>86.10</b>
280	289	318	0.020	10.0	06001194	<b>94.50</b>
300	309	340	0.020	10.0	06001195	<b>107.00</b>

Other dimensions on request – not suitable for extraction arms – for fastening clamps, see page 75



## 8 Extraction hoses

### 8.3 Electrically conductive hosesuper-light version

#### Material:

- » Helix: Spring steel wire firmly embedded in the wall
- » Hose material: electrically conductive polyethylene (PE)
- » Wall thickness approx. 0.4 mm

#### Material properties:

- » Highly flexible and compressible
- » Fabric reinforced
- » Excellent chemical resistance
- » Good resistance to oil and petrol
- » in accordance with TRBS 2153 electrically conductive wall: Contact resistance  $<10^4 \Omega$ , recommended for conveying flammable bulk goods
- » Meets the requirements of the European ATEX Directive
- » Temperature-resistant: approx.  $-35^\circ\text{C}$  to approx.  $+60^\circ\text{C}$

#### Applications:

- » Electrically conductive extraction and blower hose, with special suitability:
  - in explosive areas (explosion protection)
  - for aggressive solids such as dust, powder and fibres
  - for aggressive gaseous media such as vapours and smoke
  - for dust extraction systems



Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	58	58	0.240	10.0	06002329	50.70
65	73	73	0.170	10.0	06006236	54.10
70	78	78	0.140	10.0	06006237	58.50
80	88	88	0.120	10.0	06002376	65.10
100	108	108	0.080	10.0	06002167	69.50
125	133	133	0.055	10.0	06002350	84.90
140	148	148	0.050	10.0	06002377	93.80
150	158	158	0.050	10.0	06002378	100.40
160	168	168	0.045	10.0	06002290	107.00
180	188	188	0.035	10.0	06001816	124.00
200	208	208	0.035	10.0	06006245	134.00
224	232	232	0.025	10.0	06006246	153.00
250	258	258	0.015	10.0	06006247	164.00
280	288	288	0.015	10.0	06006248	182.00
300	309	309	0.010	10.0	06006249	205.00

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

### 8.3 Electrically conductive hosesuper-light version

#### Material:

- » Clamping profile support helix: completely made from stainless steel
- » Hose material: inside semiconducting PTFE foil, outside coated polyester fabric

#### Material properties:

- » Surface resistance of PTFE film  $<10^6 \Omega$
- » Double-layered
- » Highly flexible and compressible 4:1
- » Abrasion protection due to external clamping profile
- » Excellent chemical resistance
- » Good resistance to alkalis and acids
- » In accordance with TRBS 2153 electrically conductive wall:  
Contact resistance  $<10^3 \Omega$ , recommended for conveying flammable bulk goods
- » Meets the requirements of the European ATEX Directive
- » Temperature-resistant: approx.  $-40^\circ\text{C}$  to approx.  $+170^\circ\text{C}$



#### Applications:

- » Electrically conductive extraction and blower hose, with special suitability:
  - in explosive areas (explosion protection)
  - for aggressive solids such as dust, powder and fibres
  - for aggressive gaseous media such as vapours and smoke
  - for dust extraction systems
  - as bellows and expansion joint

Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	62	43	0.300	6.0	06006220	204.00
65	77	54	0.230	6.0	06006221	205.00
70	82	57	0.210	6.0	06001794	206.00
80	92	64	0.160	6.0	06006223	211.00
100	112	78	0.100	6.0	06006224	236.00
125	137	96	0.070	6.0	06006225	274.00
140	152	106	0.050	6.0	06006226	286.00
150	162	113	0.040	6.0	06001893	299.00
160	172	120	0.035	6.0	06006228	322.00
180	192	134	0.030	6.0	06006229	398.00
200	212	148	0.025	6.0	06006230	420.00
224	236	166	0.020	6.0	06006231	510.00
250	262	183	0.020	6.0	06006232	530.00
280	292	204	0.015	6.0	06006233	600.00
300	312	218	0.010	6.0	06006234	650.00

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

### 8.4 Hose for food and pharmaceutical industriesuper-light version

#### Material:

- » Clamping profile support spiral: completely made from stainless steel
- » Hose material: PTFE-coated glass fabric

#### Material properties:

- » Highly flexible and compressible 4:1
- » Abrasion protection due to external clamping profile
- » Excellent chemical resistance
- » Good resistance to alkalis and acids
- » Inner liner food-safe in accordance with: EC Directive 2002/72/EC (formerly 90/128/EEC)
- » Odourless and tasteless
- » Temperature-resistant: approx. -150 °C to approx. +250 °C, briefly to approx. +270 °C

#### Applications:

- » Extraction and blower hose, with particularly suitable:
  - for aggressive solids such as dust, powder and fibres
  - for aggressive gaseous media such as vapours and smoke
  - for dust extraction systems
  - for the chemical industry
  - for the food and pharmaceutical industries



Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	62	43	0.270	6.0	06006177	96.00
65	77	54	0.200	6.0	06006178	125.00
70	82	57	0.180	6.0	06006179	134.00
80	92	64	0.140	6.0	06006180	151.00
100	112	78	0.085	6.0	06006181	189.00
125	137	96	0.060	6.0	06006182	218.00
140	152	106	0.040	6.0	06006183	230.00
150	162	113	0.035	6.0	06006184	240.00
160	172	120	0.030	6.0	06006185	256.00
180	192	134	0.025	6.0	06006186	316.00
200	212	148	0.020	6.0	06006187	338.00
224	236	166	0.020	6.0	06006188	404.00
250	262	183	0.015	6.0	06006189	420.00
280	292	204	0.012	6.0	06006190	470.00
300	312	218	0.010	6.0	06006191	510.00

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

### 8.5 High temperature hose super-light version

#### Material:

- » Clamping profile support spiral: Galvanised steel
- » Hose material: Armoured with stainless steel wire and specially coated glass fabric

#### Material properties:

- » Highly flexible and compressible 3:1
- » Abrasion protection due to external clamping profile
- » Flame retardant in accordance with: DIN 4102-B1
- » Temperature-resistant: approx. -60°C to approx. +400°C, briefly to approx. +450°C



#### Applications:

- » Flame retardant extraction hose, with special suitability:
  - for aggressive solids such as dust, powder and fibres
  - for gaseous media such as vapours and smoke
  - for dust extraction systems
  - as bellows and expansion joint

Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	62	50	0.380	6.0	06006192	103.60
65	77	62	0.290	6.0	06006193	116.00
70	82	66	0.260	6.0	06006194	118.00
80	92	74	0.200	6.0	06001795	124.00
100	112	101	0.120	6.0	06006196	137.00
125	137	123	0.085	6.0	06006197	174.00
140	152	137	0.060	6.0	06006198	193.00
150	162	113	0.050	6.0	06006199	204.00
160	172	120	0.045	6.0	06001796	223.00
180	192	134	0.040	6.0	06006035	245.00
224	236	166	0.025	6.0	06006202	312.00
250	262	183	0.025	6.0	06006203	347.00
280	292	203	0.020	6.0	06006204	401.00
300	312	218	0.015	6.0	06006205	415.00

Other dimensions and higher temperatures on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

### 8.6 Special hose for increased sparksuper-light version

#### Material:

- » Clamping profile support helix:  
hot-dip galvanised steel strip
- » Hose material: Specially coated,  
textile high temperature fabric

#### Material properties:

- » Highly flexible and compressible 6:1
- » Abrasion-proof
- » Abrasion protection due to external clamping profile
- » Widely resistant against increased sparks
- » Temperature-resistant: approx. -40°C  
to approx. +200°C, briefly to approx. +280°C



#### Applications:

- » Flame retardant extraction hose, with special suitability:
  - grinding dust extraction with high amount of sparks
  - welding fume extraction with high amount of sparks
  - extraction of hot and abrasive grinding dust

Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Negative pressure bar	Manufactured length m	Art. no.	Price in € per m
50	58	59	0.300	3.0 / 6.0	06006206	236.00
65	73	76	0.190	3.0 / 6.0	06006207	290.00
70	78	81	0.160	3.0 / 6.0	06006208	314.00
80	88	92	0.120	3.0 / 6.0	06006209	347.00
100	108	114	0.080	3.0 / 6.0	06006210	372.00
125	133	142	0.050	3.0 / 6.0	06006211	416.00
140	148	158	0.040	3.0 / 6.0	06001827	430.00
150	158	169	0.035	3.0 / 6.0	06006213	450.00
160	170	181	0.030	3.0 / 6.0	06006214	470.00
180	190	221	0.025	3.0 / 6.0	06006215	540.00
200	210	245	0.020	3.0 / 6.0	06006216	600.00
224	234	275	0.016	3.0 / 6.0	06006217	660.00
280	290	338	0.010	3.0 / 6.0	06006218	830.00
300	310	365	0.010	3.0 / 6.0	06006219	870.00

Other dimensions on request - suitable for extraction arms - for fastening clamps, see page 75

## 8 Extraction hoses

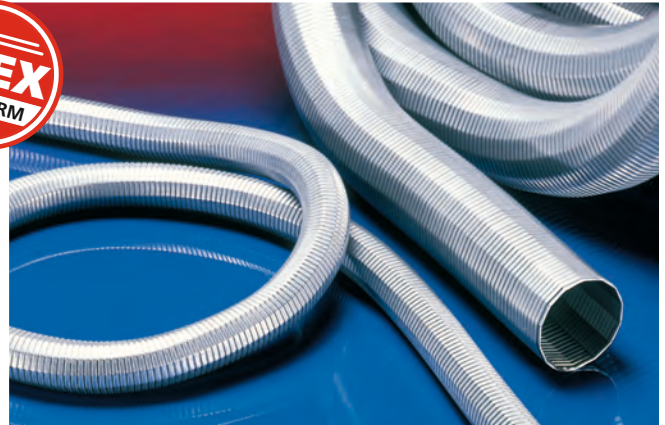
### 8.7 Flexible metal hose

#### Material:

- » Profiled metal strip, galvanised steel
- » Engaged profile
- » Seal: Glass yarn

#### Material properties:

- » Flexible
- » Abrasion-proof
- » in accordance with TRBS 2153 electrically conductive wall: Contact resistance and surface resistance  $<10^3 \Omega$ , recommended for conveying combustible bulk goods/
- » Abrasion protection due to external clamping profile
- » Flame-retardant
- » Meets the requirements of the European ATEX Directive
- » Temperature-resistant: to approx. +400 °C



#### Applications:

- » Extraction hose, with special suitability:
  - for solids such as powder, chippings and pellets
  - for gaseous media
  - for dust extraction systems
  - for conveying flammable bulk goods and in explosive areas (explosion protection)

Inner Ø mm	Outer Ø mm	Bend radius (Hose middle) mm	Manufactured length m	Art. no.	Price in € per m
35	39	150	10.0	11000005	29.30
50	55	180	10.0	11000006	44.40
60	66	215	10.0	11000241	48.30
70	76	240	10.0	11000225	63.00
80	86	270	10.0	11000007	71.40
100	107	300	10.0	11000008	106.00
125	132	400	10.0	11000231	118.00
140	149	430	10.0	11000009	147.00
150	159	460	10.0	11000010	164.00
160	169	490	10.0	11000216	177.00
180	189	545	10.0	11000011	220.00
200	211	560	5.0	11000232	266.00
225	236	630	5.0	11000233	308.00
250	261	700	5.0	11000012	352.00
275	286	770	5.0	11000234	404.00
300	311	850	5.0	11000235	450.00

Other dimensions and higher temperatures on request – metal hose not suitable for extraction arms



# 9 Pre-separators for extraction systems

The use of pre-separation systems is an effective supplement to extraction systems in many applications. The pre-separation of dry and pourable dust, chippings and sparks is particularly recommended to increase the lifetime of the main filter of the extraction system, thus reducing operating costs. Only the very fine dust needs to be filtered in the extraction system.

Depending on the application, ESTA provides you with different versions: a water pre-separator is the ideal solution, for flying sparks to reduce the risk of filter fires to a minimum.

A cyclone pre-separator on the other hand is suitable for the separation of different problem dusts, amongst other things. Due to innovative technology and highly efficient operation, the ESTA cyclonic pre-separators achieve a very high separation efficiency. To achieve optimum extraction capacity, the extraction medium should always be taken as the basis for selecting a suitable pre-separation system.



Cyclone ZA-160 in use

## Application

- » For connecting to extraction systems for pre-separation of coarse particles and sparks

## Special features

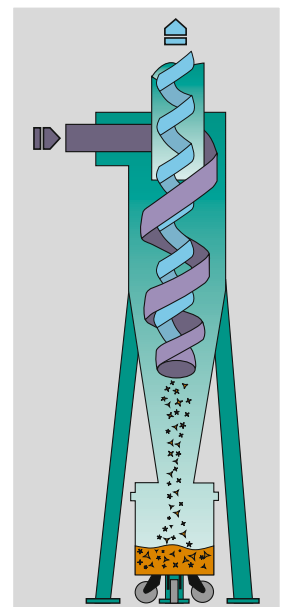
- » Different pre-separation systems for special requirements

## Benefits

- » Reduction of the operating costs for the extraction system by increasing the service life of the main filter
- » Reducing the risk of a filter fire
- » Pre-separators can be combined with most extraction units and systems



ESTA DUSTMAC F-144 with cyclone pre-separator for the extraction of zinc and cotton fibres with polishing wax



Functional diagram of a cyclone pre-separator



## 9 Pre-separators for extraction systems

### 9.1 Cyclone pre-separator ZA



Cyclone pre-separators are installed before the actual filter unit and used for the pre-separation of dry and free-flowing dusts. Mainly medium and coarse dust particles are separated so that only the fine dust needs to be filtered. The lower pollution on the filter cartridges also reduces the operating costs of the entire filter system.

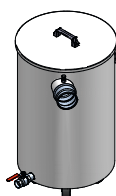
Cyclone pre-separators achieve an efficiency of around 90 % for an average particle size of at least 150 microns. For particle sizes larger than 150 microns, a separation efficiency of up to 96 % is achieved.

Collection bin and feet are included in the scope of delivery.

<i>Suction nozzle mm</i>	<i>Collection bin Litres</i>	<i>Height mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	50	1,458	20821050	<b>2,510.00</b>
100	100	2,280	20821100	<b>2,730.00</b>
125	100	2,596	20821125	<b>2,990.00</b>
140	100	2,578	20821140	<b>3,240.00</b>
160	100	2,924	20821160	<b>4,160.00</b>
200	100	3,166	20821200	<b>4,600.00</b>
225	200	4,128	20821225	<b>5,560.00</b>
250	200	4,823	20821250	<b>6,030.00</b>
280	200	4,399	20821280	<b>6,850.00</b>
300	200	5,086	20821300	<b>7,480.00</b>
315	200	5,278	20821315	<b>8,550.00</b>
355	200	5,735	20821355	<b>14,180.00</b>
450	200	6,449	20821450	<b>20,700.00</b>

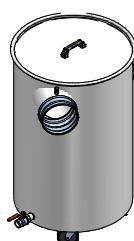
Other cyclone pre-separators on request

### 9.2 Water pre-separator



For use in spark-generating applications, 100 litre steel container with removable lid, optical fill control, drain valve and 1.5 m PU connecting hose

<i>Connection Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
100	90100	<b>1,040.00</b>



For use in spark-generating applications, 200 litre steel container with removable lid, optical fill control, drain valve and 1.5 m PU connecting hose

<i>Connection Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
125	90125	<b>1,070.00</b>
140	90140	<b>1,070.00</b>
160	90160	<b>1,070.00</b>
180	90180	<b>1,070.00</b>

## 9 Pre-separators for extraction systems

### 9.3 Pre-separator for large chipping volumes



#### Pre-separator for dust extractor

For use with large volumes of chippings, 200 l dust collection container with lid, incl. 1.5 m PU connecting hose and plastic filling sacks

Connection Ø mm	Art. no.	Price €
100	95100	1,300.00
125	95125	1,300.00
140	95140	1,300.00
160	95160	1,300.00

#### Cyclone pre-separator for dust extractor

For connecting to a dust extractor, lid with integrated cyclone for separating lighter chippings, including 1.5 m PU connecting hose and plastic filling sacks

Connection Ø mm	Art. no.	Price €
100	96100	2,330.00
125	96125	2,330.00
140	96140	2,330.00
160	96160	2,330.00



#### Plastic filling bags for pre-separator

1 set = 10 pieces

Volume	Art. no.	Price €
100l	30000588	29.30
200l	30000567	37.90



### 9.4 Pipe pre-separator



The pipe pre-separation system effectively removes coarse particles, glowing particles and sparks already in the pipeline, thus minimising the fire risk of your extraction and filtration system. The pipe pre-separator not only provides effective protection for your system, but also significantly increases filter life. The system can be easily integrated into the pipeline - whether during a new installation or when retrofitting an existing system.

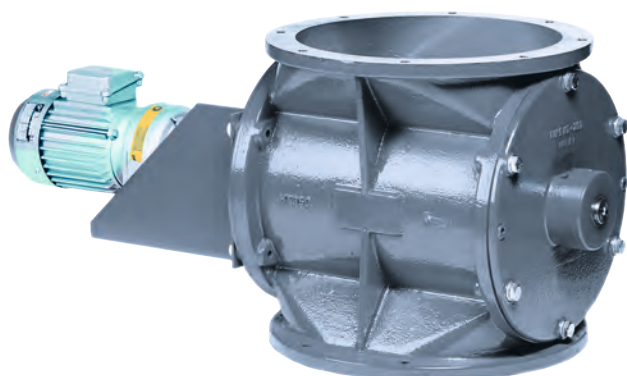
Connection-Ømm	Effective range of use m³/h	Art.no.	Price €
250	2,800 - 3,500	98250	2,260.00
355	5,500 - 7,000	98355	2,540.00
450	9,200 - 11,200	98450	2,770.00
560	13,500 - 17,500	98560	2,880.00

# 9 Discharge systems



Discharge systems, such as rotary valves, are suitable for the continuous discharge of fine-grained and dusty bulk materials from filters, separators and cyclones. They are installed under extraction systems in order to carry away bulk material from air conveyor circuits with minimal pressure losses. ESTA offers the rotary valves in different output levels. Discharge gates on the other hand are used for the discontinuous inward and outward transfer of bulk materials and are available in two versions:

a manual version with hand crank and a pneumatic automatic version. The discharge rate can be aligned and regulated to specific requirements.



Rotary valve ZRS6-350  
Use in ATEX zones optionally possible



Central extraction system with two rotary valves for the continuous discharge of brick dust

ESTA PLUS

## Application

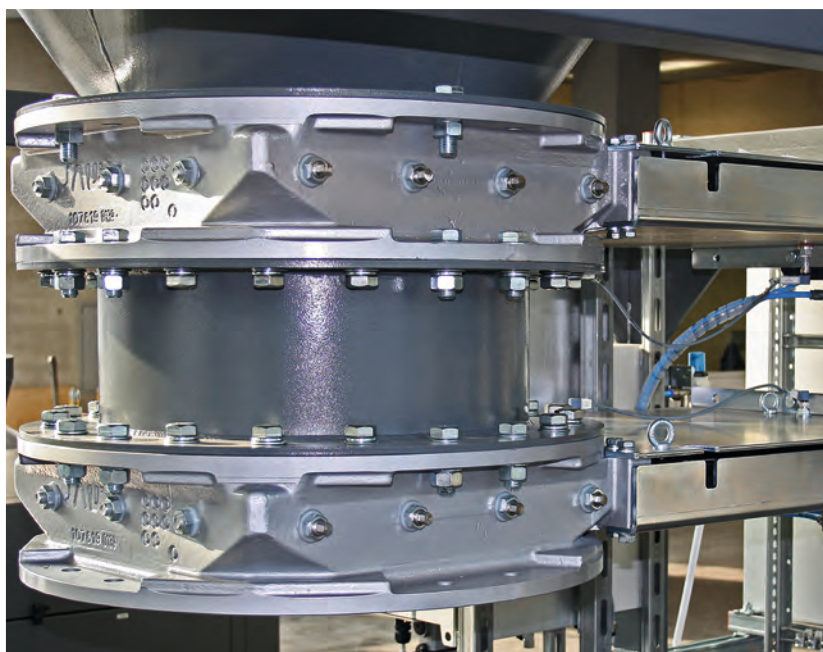
- » Installation under filter systems and cyclones for the extraction of bulk material

## Special features

- » Suitable for retrofitting
- » Low pressure drop of the filter system ensured

## Benefits

- » Continuous discharge of the bulk material
- » Regulation of the discharge rate
- » Robust, low-wear designs
- » Simple installation and easy to use
- » Can be used in ATEX zones



Two pneumatic process gate valves on one filter cyclone for the extraction of bulk material into a Big Bag

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Slopped suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

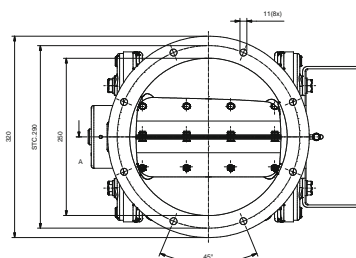
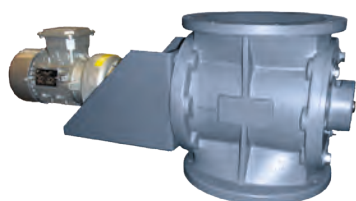
Spiral seam pipes /  
steel pipes

## 10 Discharge systems

### 10.1 Rotary valves



#### Rotary valve ZRS6-250



Type ZRS6-250 makes use of an rotor disc with six chambers, which reaches a maximum conveying performance of approx. 6,300 l / h. This type is designed for a discharge flange of **DN 250 mm** , a negative pressure up to max. 5,000 Pa and a temperature range from approx. -15 ° C to 60 ° C. The mounting flange corresponds to the adjacent flange pattern. The ATEX version can be used in zone 22.

	Art. no.	Price €
ZRS6-250	16000588	<b>2,380.00</b>
ZRS6-250 ATEX	16000589	<b>2,840.00</b>

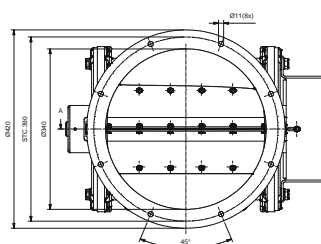
#### Rotary valve ZRS8-250



Type ZRS8-250 makes use of an rotor disc with eight chambers, which reaches a maximum conveying performance of approx. 3,300 l/h. This type is designed for a discharge flange of **DN 250 mm** , a negative pressure up to max. 20,000 Pa and a temperature range from approx. -20 °C to 80 °C. The mounting flange corresponds to DIN 2501 PN 10. The ATEX version can be used in zone 22.

	Art. no.	Price €
ZRS8-250	16000592	<b>2,810.00</b>
ZRS8-250 ATEX	16000593	<b>3,530.00</b>

#### Rotary valve ZRS6-350



Type ZRS6-350 makes use of an rotor disc with six chambers, which reaches a maximum conveying performance of approx. 18,000 l / h. This type is designed for a discharge flange of **DN 350 mm** , a negative pressure up to max. 5,000 Pa and a temperature range from approx. -15°C to +60°C. The mounting flange corresponds to the adjacent flange pattern. The ATEX version can be used in zone 22.

	Art. no.	Price €
ZRS6-350	16000590	<b>2,840.00</b>
ZRS6-350 ATEX	16000591	<b>3,290.00</b>

#### Special versions

All rotary valves can be supplied in special versions upon direct request, e.g. special coating of the rotary valve, a different temperature range, another rotor disc, etc.

**If you have any questions, we are happy to help.**

## 10 Discharge systems

### 10.2 Discharge gates



#### Discharge gates



The discharge gates are available in manual and pneumatic versions. We offer the gates for discharge flanges of Ø250 mm and Ø300 mm as standard. The mounting flange corresponds to DIN 2501 PN 10. The gates can be used in ATEX zones 20, 21 and 22. The housing can be made of aluminium or grey cast iron depending on the application. The slide plate is made of stainless steel as standard. At the customer's special request, we can also supply custom-made products, e.g. made entirely of stainless steel, different nominal diameters, other fastening flanges, etc.

	Art. no.	Price €
Ø 250 mm, pneumatic, aluminium	16000594	<b>3,860.00</b>
Ø 250 mm, pneumatic, grey cast iron	16000595	<b>4,220.00</b>
Ø 300 mm, pneumatic, aluminium	16000596	<b>4,340.00</b>
Ø 300 mm, pneumatic, grey cast iron	16000597	<b>4,780.00</b>
Ø 250 mm, manual, aluminium	16000598	<b>1,970.00</b>
Ø 250 mm, manual, grey cast iron	16000599	<b>2,380.00</b>
Ø 300 mm, manual, aluminium	16000600	<b>2,420.00</b>
Ø 300 mm, manual, grey cast iron	16000601	<b>2,860.00</b>

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Slopped suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes /  
steel pipes



# 11 Safety systems



ESTA places the highest importance on the safety of your extraction system. Potential risks, such as filter fires, deflagrations in the filter system or dangers posed by a filter rupture, can be reduced to a minimum through the use of additional safety systems. Amongst other things, the use of sensors also allows the checking of the fill level in the dust collection chamber and notifies the user with an acoustic or visual signal when a set limit value is reached.

A residual dust sensor is used to switch off the extraction system immediately if there is a filter rupture, thus preventing the leakage of hazardous substances. For a better explosion protection, filter systems can be equipped with explosion relief panels to relieve pressure into non-hazardous areas. The integration of non-return valves in the pipe system can prevent the propagation of an explosion into the raw gas line. All extraction systems can also be equipped with a powder extinguishing system that is immediately triggered in the event of fire in order to prevent greater damage.

ESTA provides a wide range of safety systems to minimise your risk potential - we are happy to advise you!



DUSTMAC F-96 central welding fume filter system with integrated ABC powder extinguishing system

## ESTA PLUS

### Application

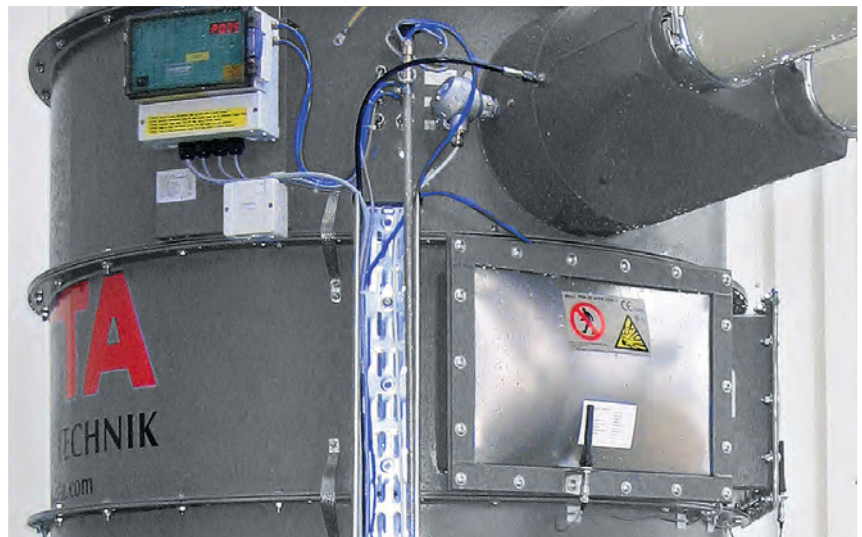
- » For installation in the extraction system or for integration in the pipe system

### Special features

- » Suitable for retrofitting
- » Various systems for different safety requirements

### Benefits

- » Protects your extraction system and the working environment
- » Minimisation of risks
- » Can be used in ATEX zones



Central extraction system with integrated filter rupture monitoring and explosion relief panel for pressure relief into the outdoor area

## 11 Safety systems

### 11.1 Residual dust sensor



#### DUSTY dust sensor



The DUSTY dust sensor is used to check the clean gas side pipeline for residual dust and is used as a safety component in the event of a filter rupture. The dust sensor can be adjusted specifically to your application. If the set amount of residual dust is exceeded, the extraction system is switched off as a precautionary measure. The dust sensor is designed for pipelines up to a nominal diameter of 250 mm and can be read out via a converter and evaluated. For pipelines with nominal diameters greater than 250 mm, three sensors can be coupled to ensure better monitoring.

	<i>Art. no.</i>	<i>Price €</i>
DUSTY std.	30003564	on request
DUSTY ExD (ATEX)	30007890	on request

#### Converter



The converter for the residual dust sensor unit is integrated in a control cabinet and converts the signal from the sensor unit which can then be read.

	<i>Art. no.</i>	<i>Price €</i>
DUSTY converter	15004135	3,170.00

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 11 Safety systems

### 11.2 Fill level monitor



#### Vibrating rod sensor



The vibrating rod sensor stimulates the measuring rod at its resonant frequency through a piezoelectric drive. If the measuring rod is plunged into bulk material, this changes its vibration amplitude. The actual amplitude is now compared with the target amplitude. Depending on the connection of the sensor, it emits an acoustic signal via a signal horn or activates a switching device. The ATEX version can be used in zones 20/22.

	<i>Shaft length mm</i>	<i>Art. no.</i>	<i>Price €</i>
Soliphant FTM 20	225	04002713	<b>1,220.00</b>
Soliphant FTM 20ex	225	04003065	<b>1,480.00</b>

#### Ultrasonic sensor



The ultrasonic sensor sends pulses that are reflected by the bulk material. The measured time serves as the distance measurement. The sensor sends a signal when a previously set maximum distance is reached. The ATEX version can be used in zones 20/22.

	<i>Art. no.</i>	<i>Price €</i>
Prosonic FMU40-5RB2C2	04002523	<b>4,310.00</b>
Prosonic FMU40-5RH2A2	04002745	<b>4,330.00</b>

#### Rotary vane sensor



The rotary vane sensor keeps one vane in constant rotation. As soon as the vane is immersed in bulk material, this stops. Depending on the connection of the sensor, it emits an acoustic signal via a signal horn or activates a switching device. The ATEX version can be used in zones 20/22.

	<i>Shaft length mm</i>	<i>Art. no.</i>	<i>Price €</i>
Soliswitch FTE30-AAA1	100	04003066	<b>910.00</b>

Other versions on request.



## 11 Safety systems

### 11.3 Rupture discs

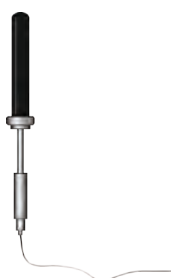
#### Explosion relief panel GE 1000

In the case of a deflagration in the filter housing of the extraction system, the explosion relief panel breaks and ensures controlled pressure relief into non-hazardous areas. The extraction system is then immediately shut down. This precautionary measure prevents greater damage to your extraction system and your working environment.



Length x width mm	Art. no.	Price €
457 x 890	02002362	1,400.00
305 x 457	02002368	1,200.00
220 x 420	02002462	1,290.00
490 x 490	02002463	1,240.00
645 x 645	02003474	1,580.00
610 x 610	02003542	1,400.00
490 x 590	02003543	1,240.00
470 x 610	02003544	1,300.00
375 x 655	02003545	1,300.00

#### Sensor for explosion relief panel



Art. no.	Price €
02010353	350.00

#### Explosion relief panel GE 1000, complete including sensor



Length x width mm	Art. no.	Price €
220 x 420	30007872	1,640.00
305 x 457	30007873	1,550.00
375 x 655	30007874	1,640.00
490 x 490	30007875	1,590.00
490 x 590	30007876	1,590.00
470 x 610	30007877	1,640.00
457 x 890	30007878	1,720.00
610 x 610	30007879	1,720.00
645 x 645	30007880	1,850.00

## 11 Safety systems

### 11.4 Pressure relief valves

#### Pressure relief valves

Pressure relief valves are used wherever there is a flame front or where the pressure of an explosion must be absorbed safely. They open automatically in the process of a deflagration in the extraction system, reliably prevent the escape of flames, and then close again. This prevents unpredictable secondary explosions and subsequent fires. Unlike explosion relief panels that need to be replaced after an explosion and force a system shutdown, the use of pressure relief valves means production can quickly continue – moreover, it is also not necessary to change the valve. In addition, the valves are specially designed for use in indoor areas.



<i>Geometric relief cross-section cm<sup>2</sup></i>	<i>Art. no.</i>	<i>Price €</i>
499	16001787	on request
732	16001788	on request
1,260	16001789	on request
1,665	16001654	on request
2,300	16001764	on request
2,990	16001662	on request
3,903	16001790	on request

### 10.5 ABC powder extinguisher

#### ABC powder extinguisher



As a further fire protection measure, ESTA recommends the use of ABC powder extinguishing systems. With a capacity of 10 kg, they can be installed on the side of the extraction systems. Two spark detectors, a thermal maximum detector and, on the pure air side, a smoke detector are integrated inside the device. If a spark or an increase in temperature is detected or smoke is produced, the fan is automatically switched off and ABC extinguishing powder is directed into the filter system by the central extinguishing system. There is also acoustic/optical signalling. The extinguishing powder that is supplied can be cleared by cleaning the filter and disposed of in the dust collecting container, which ensures the continued smooth running of the entire system.

<i>Designation</i>	<i>Art. no.</i>	<i>Price €</i>
ABC powder extinguisher	16000487	on request

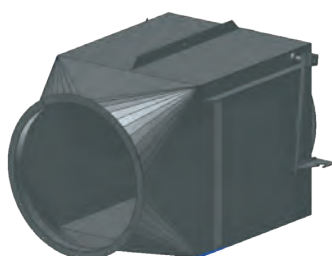
Prices on request as specific planning is required for each system.

## 11 Safety systems

### 11.6 Non-return valves

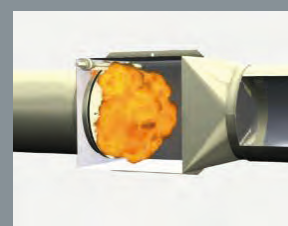
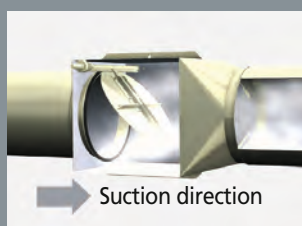
#### Non-return valves

During various processes, explosive dust/air mixtures can occur. If the introduction of ignition sources (e.g. flying sparks) into the extraction system cannot be ruled out, non-return valves are integrated in the raw gas pipeline as a protective measure. If there is an explosion in the extraction system, the non-return valve closes, thus preventing the discharge of the explosion via the raw gas pipeline and avoiding greater damage.



NW mm	Art. no.	Price €
160	15013384	2,920.00
180	15013385	3,030.00
200	15013386	3,130.00
250	15013387	3,300.00
315	15013388	3,860.00
350	15013160	4,470.00
400	15013389	4,920.00

#### Mode of operation:



# 12 Post-filters

Post-filters are installed downstream of a main filter or a dust removal system and perform a final cleaning and a backup function. The latter is required if an upstream filter is no longer functional, e.g. due to a fracture – the post-filter prevents the uncontrolled escape of hazardous substances.

The main task of post-filters, however, is to remove residual dust from the clean air and to ensure compliance with the statutory limits.

The cassette filters that are used for this have low operating costs due to the maximum filter surface in a small area and the associated long filter service life. After reaching the service life, the filter media can easily be removed from the housing.

ESTA filter cartridges meet the requirements of the filter class "H13" in accordance with DIN EN 1822 with a separation efficiency of 99.95 % (e.g. filter breakage monitoring, ATEX zone entrainment).

ESTA filter cartridges of filter class "H14" with a separation efficiency > 99.995 % are approved in accordance with DIN EN 1822.

Moreover, the ESTA post-filters can be integrated in a pipeline system at any time.



Modular ESTA extraction system DUSTMAC F-144 with post-filters for the extraction of GFK sanding dust

## Application

- » For installing downstream of a dust removal system or a main filter
- » Can be retrofitted to pipe systems

## Special features

- » Backup function
- » Use of high-quality glass fibre filter media

## Benefits

- » High separation capability due to HEPA filters of filter class "H13" or "H14"
- » Low operating costs due to long filter service life
- » Easy filter change



Post-filters on a filter system in a metal working shop



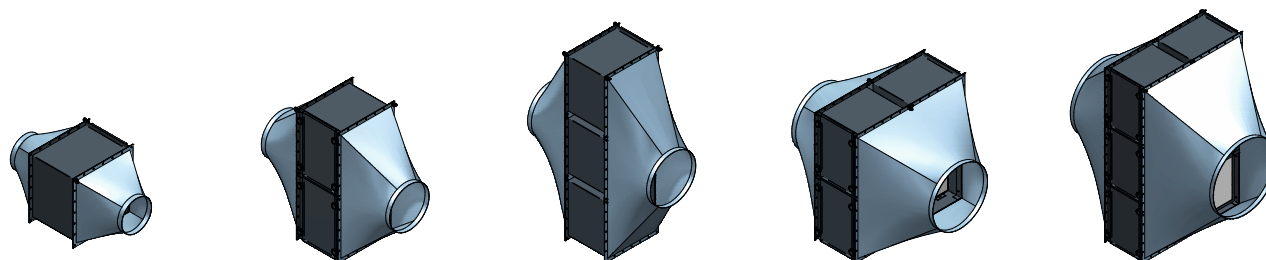
Post-filters installed on the DUSTMAC F-288 central extraction system

## 12 Post-filters

### 12.1 Post-filters

#### Post-filters (filter class "H13")

A post-filter, filter category "H13", is used to filter the clean gas pipeline and provides a filtration efficiency of 99.95 %. The filter can also be retrofitted into the clean gas pipeline. Depending on the size of the overall filter, several filter cassettes are used. Due to the simple construction, the filter cartridges can be replaced quickly. Pressure resistance of the housing: 4,000 Pa. Initial pressure difference at nominal flow 250 Pa. Recommended end pressure difference 500 Pa.



1 × 1		1 × 2		1 × 3		2 × 2		2 × 3	
m³/h	Art. no.	m³/h	Art. no.	m³/h	Art. no.	m³/h	Art. no.	m³/h	Art. no.
3,000	30010200	6,000	30010202	9,000	30010204	16,000	30010206	18,000	30010207
4,000	30010201	8,000	30010203	12,000	30010205	–		24,000	30010208

Volume flow m³/h	Post-filter version	Post-filter pieces	Connection Ø mm	W × H × L mm	Art. no.	Price €
3,000	<b>1</b>	1	300	1,320 × 710 × 710	30010200	<b>2,850.00</b>
4,000	<b>2</b>	1	355	1,320 × 710 × 710	30010201	<b>3,010.00</b>
6,000	<b>1</b>	2	450	1,620 × 1,420 × 710	30010202	<b>5,330.00</b>
8,000	<b>2</b>	2	500	1,620 × 1,420 × 710	30010203	<b>5,780.00</b>
9,000	<b>1</b>	3	560	1,620 × 2,130 × 710	30010204	<b>7,840.00</b>
12,000	<b>2</b>	3	600	1,620 × 2,130 × 710	30010205	<b>8,340.00</b>
16,000	<b>2</b>	4	710	1,820 × 1,420 × 1,420	30010206	<b>10,590.00</b>
18,000	<b>1</b>	6	800	2,020 × 2,130 × 1,420	30010207	<b>14,400.00</b>
24,000	<b>2</b>	6	900	2,020 × 2,130 × 1,420	30010208	<b>15,060.00</b>

### 12.2 Spare parts

#### Post-filters (filter class "H13")



Version	W × H × L mm	Art. no.	Price €
<b>1</b>	<b>Air volume flow up to 3,000 m³/h</b>		
	610 × 610 × 292	01000542	<b>610.00</b>
<b>2</b>	<b>Air volume flow up to 4,000 m³/h</b>		
	610 × 610 × 292	01001058	<b>680.00</b>

#### U-pipe manometer, complete

To display differential pressures of gaseous media (analogue model, i.e. display only)

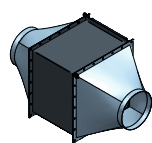
	Art. no.	Price €
Range: 0 – 1,000 Pa	30010278	<b>103.10</b>

## 12 Post-filters

### 11.3 Policing filters

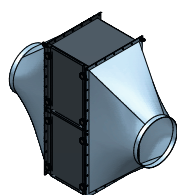
#### Policing filters (filter class "H14")

ESTA policing filter of filter class "H14" with a degree of separation > 99.995 % are approved per TRGS 560 [German technical rules for hazardous substances] for air recirculation in activities involving hazardous materials (dust and smoke) that are carcinogenic, mutagenic and toxic to reproduction. This applies to welding fumes from chrome-nickel steels, for example. The filter cartridges can be quickly replaced due to their simple construction. Pressure resistance of the housing: 4,000 Pa. . Initial pressure difference at nominal flow 250 Pa. Recommended end pressure difference 500 Pa.



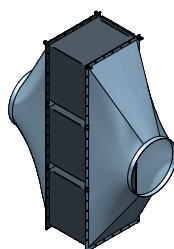
1x1

m³/h	Art. no.
3,000	30010221



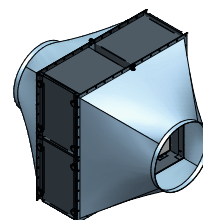
1x2

m³/h	Art. no.
6,000	30010784



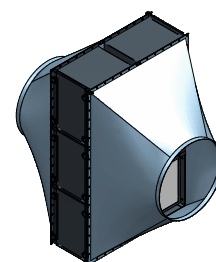
1x3

m³/h	Art. no.
9,000	30010785



2x2

m³/h	Art. no.
12,000	30010786



2x3

m³/h	Art. no.
18,000	30010787

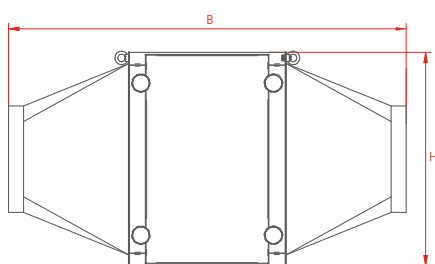
Volume flow m³/h	Policing filter version	Policing filter pieces	Connection Ø mm	W x H x L mm	Art. no.	Price €
3,000	3	1	300	1,320 x 710 x 710	30010221	3,120.00
6,000	3	2	450	1,620 x 1,420 x 710	30010784	5,880.00
9,000	3	3	560	1,620 x 2,130 x 710	30010785	8,640.00
12,000	3	4	710	1,820 x 1,420 x 1,420	30010786	11,680.00
18,000	3	6	800	2,020 x 2,130 x 1,420	30010787	16,010.00

### 11.4 Spare parts

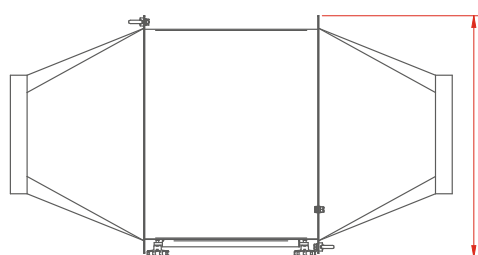
#### Policing filters (filter class "H14")



Version	W x H x L mm	Art. no.	Price €
3	Air volume flow up to 3,000 m³/h		
	610 x 610 x 292	01001064	860.00



Front view



Plan view



## 13 Spiral seam pipes

Pipeline systems are connected to the dust or smoke source for optimal flow to the extraction system. ESTA has a comprehensive selection of spiral seam ducts whose robust, premium workmanship and flexibility make them excellent for your specific requirements.

Correct design is important to achieving maximum suction, because a tight network of pipelines ensures an economical system. This is why all ESTA moulded parts have a double-lipped seal. ESTA also has the connectors and fasteners you need.



Central extraction system with spiral seam pipes system in the shoe industry



### Application

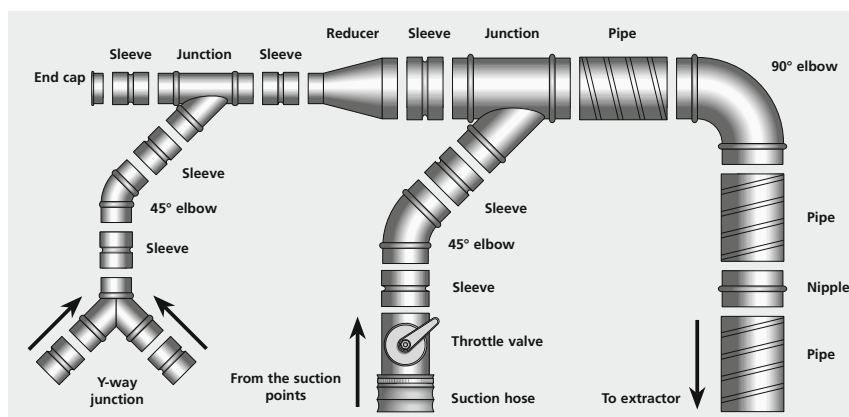
- » For connecting multiple extraction points to a central extraction system

### Special features

- » Galvanised sheet steel per DIN EN 12237
- » Standard length up to 6.0 m
- » DN 71 mm – 450 mm in stock\*
- » Sheet thicknesses from 0.4 to 1.2 mm depending on nominal pipe sizes

### Benefits

- » Extensive range of parts
- » Optimum flow conditions
- » Robust workmanship
- » Simple installation



Connecting pipe between fan and filter system



Exhaust air pipeline with deflector hood



Pipe system as a supply line for central extraction system

## 13 Spiral seam pipes

### 13.1 Spiral seam pipes

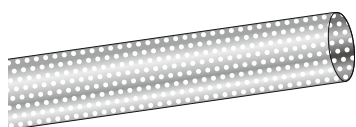


<i>Inner Ø mm</i>	<i>Material thickness mm</i>	<i>Art. no.</i>	<i>Price €</i>
71	0.5	15001786	<b>11.30</b>
80	0.6	15001787	<b>13.70</b>
90	0.6	15001788	<b>17.30</b>
100	0.6	15001789	<b>17.40</b>
112	0.6	15001790	<b>21.30</b>
125	0.6	15001791	<b>21.70</b>
140	0.6	15001792	<b>25.80</b>
150	0.6	15001793	<b>26.70</b>
160	0.6	15001794	<b>27.50</b>
180	0.6	15001795	<b>30.90</b>
200	0.6	15001796	<b>34.10</b>
224	0.6	15001797	<b>38.10</b>
250	0.6	15001798	<b>42.80</b>
280	0.6	15001799	<b>47.80</b>
300	0.6	15001800	<b>51.00</b>

Other nominal diameters on request – prices per metre – manufactured length: 3.0 m

### 13.2 Perforated pipes

as an air outlet of supply air or filtered exhaust air. The perforated pipe has a plate thickness of 0.6 mm and a free cross-section of 33 %. The spacing of the holes is 3.2 mm.



<i>Inner Ø mm</i>	<i>Material thickness mm</i>	<i>Art. no.</i>	<i>Price €</i>
80	0.5	15015428	<b>97.40</b>
100	0.6	15015429	<b>100.00</b>
112	0.6	15015430	<b>123.00</b>
125	0.6	15008021	<b>125.00</b>
140	0.6	15015431	<b>148.00</b>
150	0.6	15015432	<b>149.00</b>
160	0.6	15015433	<b>150.00</b>
180	0.6	15015434	<b>185.00</b>
200	0.6	15015435	<b>191.00</b>
224	0.6	15007954	<b>229.00</b>
250	0.6	15015436	<b>237.00</b>
280	0.6	15009819	<b>324.00</b>
300	0.6	15015437	<b>330.00</b>
315	0.8	15015438	<b>337.00</b>
355	0.8	15015439	<b>406.00</b>
400	0.8	15015440	<b>450.00</b>
450	0.8	15015441	<b>560.00</b>
500	0.8	15015442	<b>570.00</b>
560	0.8	15015443	<b>750.00</b>
600	0.8	15015444	<b>780.00</b>
630	1.0	15015445	<b>790.00</b>

Prices per metre – manufactured length: 1.0 m



## 13 Spiral seam pipes

### 13.3 Formed parts

#### 45° elbow with rubber seal



Outer Ø mm	Art. no.	Price €
71	15003070	23.40
80	15001646	28.60
100	15001647	29.70
112	15001648	34.00
125	15001649	35.30
140	15001660	42.40
150	15001293	44.10
160	15001661	44.60
180	15001662	47.60
200	15001663	59.00
224	15001664	72.50
250	15001665	78.80
280	15001666	95.40
300	15001667	110.00

Other nominal diameters on request

#### 90° elbow with rubber seal



Outer Ø mm	Art. no.	Price €
71	15003069	26.20
80	15001544	29.70
100	15001546	32.70
112	15001547	40.50
125	15001548	41.50
140	15001549	53.90
150	15001292	54.40
160	15001550	56.90
180	15001551	65.20
200	15001552	84.20
224	15001553	108.00
250	15001554	123.00
280	15001555	141.00
300	15001556	160.00

Other nominal diameters on request

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.3 Formed parts

#### Sleeves

for connecting formed parts



<i>Inner Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
71	15001739	9.40
80	15001740	9.60
90	15001741	10.60
100	15001742	10.90
112	15001743	10.90
125	15001744	10.90
140	15001745	11.00
150	15001746	11.00
160	15001747	11.00
180	15001748	12.60
200	15001749	12.80
224	15001750	13.50
250	15001751	13.70
280	15001752	14.60
300	15001753	15.20

Other nominal diameters on request

#### Two-way distributor with rubber seal



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
100 × 71 × 71	15003074	105.00
100 × 80 × 80	15002296	110.00
100 × 100 × 100	15003297	113.00
125 × 80 × 80	15003298	136.00
125 × 100 × 100	15002298	137.00
125 × 125 × 125	15003299	139.00
140 × 100 × 100	15002299	139.00
140 × 125 × 125	15003300	143.00
140 × 140 × 140	15003043	143.00
150 × 100 × 100	15002300	146.00
150 × 125 × 125	15003301	148.00
150 × 150 × 150	15003302	152.00
160 × 100 × 100	15002981	152.00
160 × 125 × 125	15003041	155.00
160 × 160 × 160	15003253	155.00
180 × 125 × 125	15002302	155.00
180 × 150 × 150	15003303	171.00
180 × 180 × 180	15003304	180.00

## 13 Spiral seam pipes

### 13.3 Formed parts

#### Two-way distributor with rubber seal



Outer Ø mm	Art. no.	Price €
200 × 140 × 140	15002303	<b>186.00</b>
200 × 180 × 180	15003305	<b>197.00</b>
200 × 200 × 200	15003306	<b>211.00</b>

Other nominal diameters on request

#### Nipple with rubber seal for connecting pipes



Outer Ø mm	Art. no.	Price €
71	15001711	<b>10.40</b>
80	15001712	<b>17.40</b>
90	15001713	<b>17.40</b>
100	15001714	<b>16.60</b>
112	15001715	<b>18.10</b>
125	15001716	<b>18.10</b>
140	15001717	<b>20.70</b>
150	15001294	<b>20.70</b>
160	15001719	<b>21.10</b>
180	15001720	<b>22.10</b>
200	15001721	<b>26.60</b>
224	15001722	<b>27.10</b>
250	15001723	<b>28.10</b>
280	15001724	<b>29.40</b>
300	15001725	<b>36.80</b>

Other nominal diameters on request

#### Throttle valves



Outer Ø mm	Art. no.	Price €
80	15000510	<b>64.30</b>
100	15000512	<b>69.40</b>
112	15000513	<b>79.30</b>
125	15000514	<b>81.40</b>
140	15000515	<b>86.20</b>
150	15000516	<b>87.80</b>
160	15000517	<b>88.50</b>
180	15000518	<b>89.20</b>
200	15000519	<b>95.90</b>
224	15000520	<b>97.70</b>

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.3 Formed parts

#### Throttle valves (continued)



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
250	15000521	<b>111.00</b>
280	15000522	<b>123.00</b>
300	15000523	<b>137.00</b>

More nominal diameters on request

#### Shut-off valves



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
100	15000525	<b>163.00</b>
125	15000526	<b>169.00</b>
140	15000527	<b>181.00</b>
150	15000528	<b>181.00</b>
160	15000529	<b>187.00</b>
180	15000530	<b>187.00</b>
200	15000531	<b>204.00</b>
224	15000533	<b>204.00</b>
250	15000534	<b>207.00</b>
300	15000964	<b>255.00</b>

More nominal diameters on request

#### Reducers with rubber seal



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80/ 63	15002512	<b>41.20</b>
100/ 63	15002513	<b>27.70</b>
100/ 80	15002514	<b>27.70</b>
112/ 80	15002516	<b>46.20</b>
112/100	15002517	<b>46.20</b>
125/ 63	15002518	<b>46.20</b>
125/ 80	15002519	<b>28.60</b>
125/100	15002520	<b>28.60</b>
125/112	15002521	<b>46.20</b>
140/ 80	15002523	<b>49.90</b>
140/100	15002524	<b>49.90</b>

## 13 Spiral seam pipes

### 13.3 Formed parts



**Reducers with rubber seal** (continued)

<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
140/112	15002525	<b>49.90</b>
140/125	15002526	<b>49.90</b>
150/ 80	15002528	<b>50.50</b>
150/100	15002529	<b>50.50</b>
150/112	15002530	<b>50.50</b>
150/125	15002531	<b>50.50</b>
150/140	15002532	<b>50.50</b>
160/ 80	15002534	<b>31.60</b>
160/100	15002535	<b>31.60</b>
160/112	15002536	<b>50.50</b>
160/125	15002537	<b>31.70</b>
160/140	15002538	<b>51.90</b>
160/ 150	15002539	<b>51.90</b>
180/ 80	15002541	<b>54.90</b>
180/100	15002542	<b>54.90</b>
180/112	15002543	<b>54.90</b>
180/125	15002544	<b>54.90</b>
180/140	15002545	<b>56.10</b>
180/150	15002546	<b>56.10</b>
180/160	15002547	<b>56.10</b>
200/ 80	15002548	<b>60.30</b>
200/100	15002549	<b>60.30</b>
200/112	15002550	<b>60.30</b>
200/125	15002551	<b>60.30</b>
200/140	15002552	<b>61.10</b>
200/150	15002553	<b>61.10</b>
200/160	15002554	<b>61.10</b>
200/180	15002555	<b>61.10</b>
224/100	15002557	<b>63.60</b>
224/112	15002558	<b>63.60</b>
224/125	15002559	<b>64.50</b>
224/140	15002560	<b>64.50</b>
224/150	15002561	<b>64.50</b>
224/160	15002562	<b>64.50</b>
224/180	15002563	<b>64.50</b>
224/200	15002564	<b>66.70</b>
250/100	15002566	<b>66.70</b>
250/112	15002567	<b>66.70</b>
250/125	15002568	<b>67.50</b>
250/140	15002569	<b>67.50</b>
250/150	15002570	<b>67.50</b>

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.3 Formed parts

#### Reducers with rubber seal (continued)



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
250/160	15002571	<b>69.70</b>
250/180	15002572	<b>69.70</b>
250/200	15002573	<b>69.70</b>
250/224	15002574	<b>69.70</b>
280/112	15002576	<b>73.60</b>
280/125	15002577	<b>73.60</b>
280/140	15002578	<b>75.20</b>
280/150	15002579	<b>75.20</b>
280/160	15002580	<b>75.20</b>
280/180	15002581	<b>81.80</b>
280/200	15002582	<b>75.20</b>
280/224	15002583	<b>75.20</b>
280/250	15002584	<b>75.20</b>
300/125	15002587	<b>77.80</b>
300/140	15002588	<b>79.10</b>
300/150	15002589	<b>79.10</b>
300/160	15002590	<b>79.10</b>
300/180	15002591	<b>79.10</b>
300/200	15002592	<b>82.30</b>
300/224	15002593	<b>82.30</b>
300/250	15002594	<b>83.40</b>
300/280	15002595	<b>83.40</b>
400/300	15002623	<b>121.00</b>

#### Branches with rubber seal



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80/ 71	15001995	<b>54.60</b>
80/ 80	15001996	<b>57.50</b>
100/ 71	15001998	<b>56.70</b>
100/ 80	15001999	<b>59.60</b>
100/ 90	15002000	<b>59.70</b>
100/100	15002001	<b>60.50</b>
112/ 71	15002003	<b>57.50</b>
112/ 80	15002004	<b>60.50</b>
112/ 90	15002005	<b>61.70</b>
112/100	15002006	<b>64.50</b>
112/112	15002007	<b>67.50</b>

## 13 Spiral seam pipes

### 13.3 Formed parts



#### Branches with rubber seal (continued)

Outer Ø mm	Art. no.	Price €
125/ 71	15002009	57.50
125/ 80	15002010	60.50
125/ 90	15002011	61.70
125/100	15002012	64.50
125/112	15002013	53.00
125/125	15002014	53.00
140/ 71	15002016	66.80
140/ 80	15002017	69.40
140/ 90	15002018	69.90
140/100	15002019	71.30
140/112	15002020	71.30
140/125	15002021	72.50
140/140	15002022	74.50
150/ 71	15002024	66.80
150/ 80	15002025	69.40
150/ 90	15002026	69.90
150/100	15002027	71.30
150/112	15002028	71.30
150/125	15002029	72.50
150/140	15002030	74.50
150/150	15002031	78.50
160/ 80	15002032	71.30
160/ 90	15002033	72.80
160/100	15002034	73.30
160/112	15002035	75.40
160/125	15002036	76.20
160/140	15002037	80.20
160/150	15002038	88.30
160/160	15002039	97.10
180/ 80	15002040	73.30
180/ 90	15002041	74.20
180/100	15002042	76.20
180/112	15002043	77.40
180/125	15002044	80.30
180/140	15002045	87.10
180/150	15002046	92.30
180/160	15002047	101.10
180/180	15002048	108.00
200/ 80	15002049	80.30
200/ 90	15002050	82.10
200/100	15002051	85.20

Extraction arms

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extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes



## 13 Spiral seam pipes

### 13.3 Formed parts

#### Branches with rubber seal (continued)



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
200/112	15002052	87.10
200/125	15002053	91.20
200/140	15002054	93.00
200/150	15002055	97.70
200/160	15002056	106.00
200/180	15002057	113.00
200/200	15002058	129.00
224/ 90	15002060	87.10
224/100	15002061	91.20
224/112	15002062	92.30
224/125	15002063	95.10
224/140	15002064	97.10
224/150	15002065	100.10
224/160	15002066	109.00
224/180	15002067	113.00
224/200	15002068	117.00
224/224	15002069	123.00
250/100	15002072	93.00
250/112	15002073	95.90
250/125	15002074	97.10
250/140	15002075	99.30
250/150	15002076	102.00
250/160	15002077	113.00
250/180	15002078	115.00
250/200	15002079	121.00
250/224	15002080	127.00
250/250	15002081	137.00
280/112	15002083	97.70
280/125	15002084	99.30
280/140	15002085	102.00
280/150	15002086	106.00
280/160	15002087	115.00
280/180	15002088	122.00
280/200	15002089	127.00
280/224	15002090	131.00
280/250	15002091	139.00
280/280	15002092	149.00
300/125	15002095	121.00
300/140	15002096	122.00
300/150	15002097	123.00
300/160	15002098	128.00

## 13 Spiral seam pipes

### 13.3 Formed parts

#### Branches with rubber seal (continued)



Outer Ø mm	Art. no.	Price €
300/180	15002099	<b>133.00</b>
300/200	15002100	<b>141.00</b>
300/224	15002101	<b>143.00</b>
300/250	15002102	<b>151.00</b>
300/280	15002103	<b>159.00</b>
300/300	15002104	<b>173.00</b>
400/150	15002132	<b>174.00</b>
400/300	15002139	<b>231.00</b>

#### End cap

suitable for formed parts with outer Ø



Outer Ø mm	Art. no.	Price €
71	15002354	<b>11.20</b>
80	15002355	<b>11.30</b>
90	15002356	<b>12.60</b>
100	15002357	<b>12.80</b>
112	15002358	<b>14.80</b>
125	15002359	<b>14.80</b>
140	15002360	<b>14.90</b>
150	15002361	<b>14.90</b>
160	15002362	<b>17.30</b>
180	15002363	<b>18.00</b>
200	15002364	<b>18.50</b>
224	15002365	<b>20.40</b>
250	15002366	<b>22.50</b>
280	15002367	<b>31.60</b>
300	15002368	<b>33.70</b>

Other nominal diameters on request

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.3 Formed parts

#### End cap with rubber seal

suitable for pipes with inner Ø



<i>Inner Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80	15002325	<b>14.80</b>
100	15002327	<b>15.90</b>
112	15002328	<b>18.10</b>
125	15002329	<b>18.10</b>
140	15002330	<b>20.80</b>
150	15002331	<b>20.80</b>
160	15002332	<b>21.80</b>
180	15002333	<b>22.40</b>
200	15002334	<b>25.20</b>
224	15002335	<b>26.90</b>
250	15002336	<b>29.60</b>
280	15002337	<b>33.30</b>
300	15002338	<b>38.80</b>

Other nominal diameters on request

#### Exhaust vent, 45°

with bird protection grille



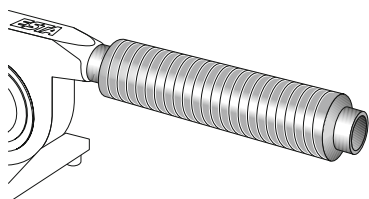
<i>Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
100	15002413	<b>93.90</b>
112	15002414	<b>101.10</b>
125	15002415	<b>101.10</b>
140	15002416	<b>110.00</b>
150	15002417	<b>110.00</b>
160	15002418	<b>114.00</b>
180	15002419	<b>121.00</b>
200	15002420	<b>128.00</b>
224	15002421	<b>134.00</b>
250	15002422	<b>146.00</b>
280	15002423	<b>173.00</b>
300	15002424	<b>187.00</b>

## 13 Spiral seam pipes

### 13.4 Sound muffler

#### Duct silencer – flexible

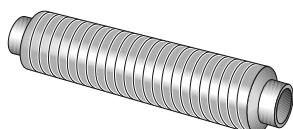
for extractor fans RG 100 to RG 800



Outer Ø mm	Art. no.	Price €
100	30000702	131.00
150	30000703	164.00
180	30000704	217.00
224	30000705	309.00
250	30000706	336.00
280	30000707	391.00
315	30000708	460.00
355	30000709	510.00

#### Duct silencer

with 100 mm insulation, length 1,200 mm



Outer Ø mm	Art. no.	Price €
250	15003137	530.00
280	15001860	406.00
300	15003141	406.00
315	15003143	406.00
355	15003145	530.00

### 13.5 Shutters

#### Electrical gate valves

230 Volt



Outer Ø mm	Art. no.	Price €
80	30000642	780.00
100	30000643	790.00
125	30000644	800.00
140	30000645	810.00
160	30000647	920.00

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

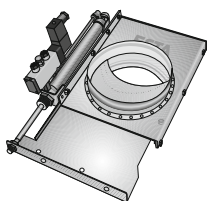
Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.5 Shutters

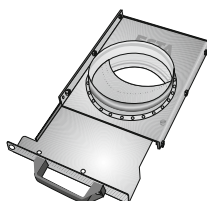
#### Pneumatic gate valves

230 Volt with compressed air



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80	30000219	450.00
100	30000220	460.00
112	30000221	470.00
125	30000222	490.00
140	30000223	500.00
150	30000224	500.00
160	30000225	510.00
180	30000226	560.00
200	30000227	590.00
224	30000228	790.00
250	30000229	800.00
280	30000230	840.00
300	30000231	880.00
315	30000232	970.00
355	30000233	1.060.00
400	30000234	1.070.00

#### Shutters with rubber seal – manual



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80	30000203	144.00
100	30000204	145.00
112	30000205	149.00
125	30000206	172.00
140	30000207	172.00
150	30000208	190.00
160	30000209	190.00
180	30000210	225.00
200	30000211	230.00
224	30000212	267.00
250	30000213	294.00
280	30000214	342.00
300	30000215	353.00
315	30000216	363.00
355	30000217	450.00
400	30000218	470.00

## 13 Spiral seam pipes

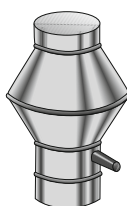
### 13.6 Hoods

#### Roof hoods



Outer Ø mm	Art. no.	Price €
100	15002787	178.00
112	15002788	185.00
125	15002789	185.00
140	15002790	200.00
150	15002791	200.00
160	15002792	200.00
180	15002793	218.00
200	15002794	253.00
224	15002795	262.00
250	15002796	267.00
280	15002797	287.00
300	15002798	303.00

#### Deflector hoods



Outer Ø mm	Art. no.	Price €
100	15002385	284.00
112	15002386	284.00
125	15002387	284.00
140	15002388	328.00
150	15002389	328.00
160	15002390	328.00
180	15002391	410.00
200	15002392	410.00
224	15002393	440.00
250	15002394	440.00
280	15002395	440.00
300	15002396	440.00

Extraction arms

Extraction hoods

 Protective walls  
Curtains / Lamellas

Extraction cabins

 Soundproof  
partition walls

 Slotted suction  
channels

 Extraction  
accessories

Extraction hoses

 Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

 Spiral seam pipes/  
steel pipes

## 13 Spiral seam pipes

### 13.7 Fixing material

#### Special fastening clamp with threaded rod



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
80	30000873	<b>26.00</b>
100	30000874	<b>27.30</b>
112	30000875	<b>28.80</b>
125	30000876	<b>30.20</b>
140	30000877	<b>31.70</b>
150	30000878	<b>33.10</b>
160	30000879	<b>34.40</b>
180	30000880	<b>35.90</b>
200	30000881	<b>37.40</b>
250	30000882	<b>38.90</b>
280	30000883	<b>40.20</b>
300	30000884	<b>41.60</b>
350	30000885	<b>43.10</b>

Other nominal diameters on request

#### Adhesive sealing tape for pipeline connections

Width: 50 mm / length: 20 m



	<i>Art. no.</i>	<i>Price €</i>
1 roll	04000167	<b>22.20</b>



## 14 Steel pipes

Unlike spiral seam pipes, steel pipes are ideal for use in extraction systems with high vacuum. Whether formed parts, gate valves or flap valves, ESTA offers a broad product range of customer-rolled steel pipes. The precisely matched tubular pipe components make air leakage virtually impossible. The robust workmanship and the optimum flow conditions ensure maximum performance of your extraction system.



Steel pipe system of a central extraction system in the tobacco industry



ESTA steel pipes are electro-galvanised and meet the most stringent demands

ESTA PLUS

### Application

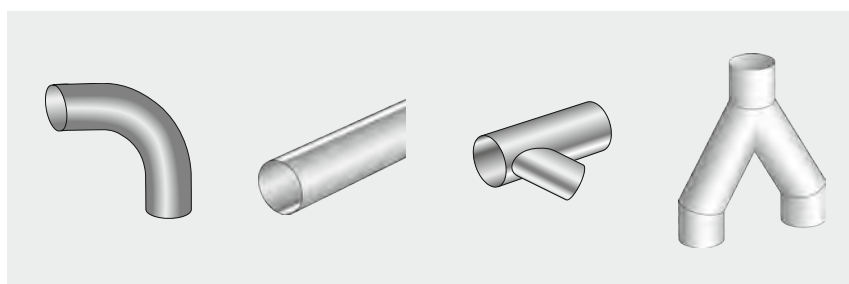
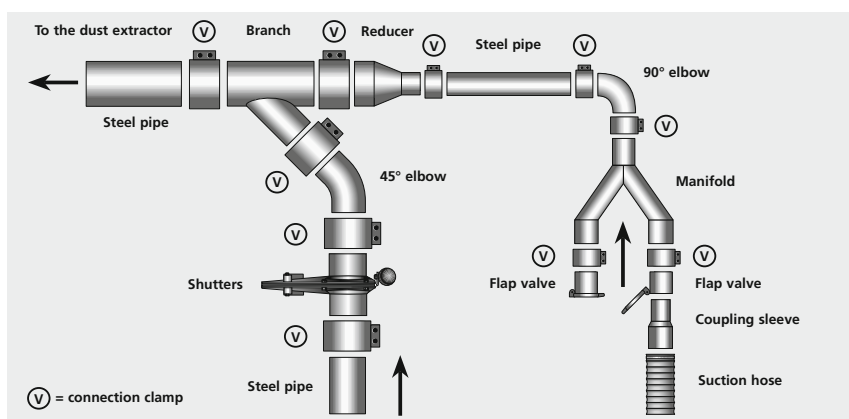
- » For connecting several suction points to a central high vacuum extraction system

### Special features

- » Standard length up to 6.0 m
- » The following outer nominal diameters are available in stock:
  - Ø 50 × 1.5 mm
  - Ø 76 × 1.5 mm
  - Ø 108 × 2.0 mm
  - Ø 133 × 2.9 mm
  - Ø 159 × 2.9 mm

### Benefits

- » Extensive range of parts
- » Optimum flow conditions
- » Robust workmanship
- » Quick and easy installation



Formed parts made of steel pipe

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 14 Steel pipes

### 14.1 Steel pipes

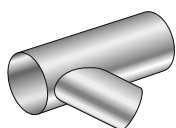


#### Steel pipes

<i>Outer Ø mm</i>	<i>Material thickness mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	1.5	11000130	<b>59.00</b>
76	1.5	11000131	<b>88.70</b>
108	2.0	11000132	<b>138.50</b>
133	2.9	11000271	<b>108.00</b>
159	2.9	11000133	<b>115.50</b>

Prices per metre – manufactured length 6.0 m

### 14.2 Formed parts



#### 45° branch

<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
50/ 50/ 50	15001034	<b>66.30</b>
76/ 76/ 50	15001035	<b>69.80</b>
76/ 76/ 76	15001036	<b>88.90</b>
108/108/ 50	15001038	<b>94.40</b>
108/108/ 76	15001033	<b>98.20</b>
108/108/108	15001037	<b>131.00</b>
133/133/ 50	15005100	<b>171.00</b>
133/133/ 76	15005099	<b>184.00</b>
133/133/108	15005098	<b>248.00</b>
133/133/133	15005097	<b>318.50</b>
159/159/ 50	15001379	<b>180.00</b>
159/159/ 76	15001090	<b>197.00</b>
159/159/108	15001032	<b>207.00</b>
159/159/133	15005096	<b>260.00</b>
159/159/159	15001031	<b>232.00</b>

#### 90° elbow

with leg extension



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	15001061	<b>55.30</b>
76	15001209	<b>92.50</b>
108	15001211	<b>167.00</b>
133	15005094	<b>395.00</b>
159	15001921	<b>407.00</b>

## 14 Steel pipes

### 13.2 Formed parts

#### 45° elbow with leg extension



Outer Ø mm	Art. no.	Price €
50	15001207	52.40
76	15001208	66.50
108	15001210	159.00
133	15005095	238.00
159	15001920	187.00

#### Manifold



Outer Ø mm	Art. no.	Price €
50/ 50/ 50	15001045	67.70
76/ 50/ 50	15001046	109.00
76/ 76/ 76	15001047	128.00
108/ 76/ 76	15001048	189.00
108/108/108	15001049	225.00
133/108/108	15005318	321.00
133/133/133	15005317	365.00
159/108/108	15001378	386.00
159/159/159	15001050	419.00

#### Reducers



Outer Ø mm	Art. no.	Price €
76/ 50	15001041	39.90
108/ 50	15001040	47.80
108/ 76	15001042	51.30
108/100	15001043	66.00
133/ 50	15005147	88.50
133/ 76	15005146	90.50
133/108	15005145	83.10
159/ 76	15001371	79.30
159/108	15001044	74.60
159/133	15005144	80.00

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

## 14 Steel pipes

### 13.2 Formed parts

#### Connection clamps

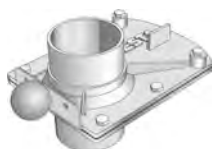
for pipes and formed parts



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	30000673	<b>26.50</b>
76	30000674	<b>27.30</b>
108	30000675	<b>31.30</b>
133	30000672	<b>43.80</b>
159	30000676	<b>55.60</b>

### 13.3 Shutters

#### Shutters, manual



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	30000657	<b>213.00</b>
76	30000658	<b>257.00</b>
108	30000659	<b>440.00</b>
159	30000698	<b>460.00</b>

#### Shutters, pneumatic

230 Volt with compressed air



<i>Outer Ø mm</i>	<i>Art. no.</i>	<i>Price €</i>
50	30000648	<b>660.00</b>
76	30000649	<b>680.00</b>
108	30000650	<b>780.00</b>
159	30001464	<b>1,040.00</b>

## 14 Steel pipes

### 13.4 Flap valves

#### Flap valve

for connecting a suction hose



Outer Ø mm	Art. no.	Price €
50 / 50	30000899	103.00
50 / 76	30000900	105.00
70 / 76	30007016	119.00

#### Flap valve with integrated microswitch

for switching the extraction system on/off (corresponding control cabinet required)



Outer Ø mm	Art. no.	Price €
50 / 50	30000901	197.00
50 / 76	30000902	199.00
70 / 76	30007017	247.00

#### Coupling sleeves

for suction hose



Outer Ø mm	Art. no.	Price €
38	06001048	22.70
50	06001047	24.00

#### Special versions

All steel pipes are also available in stainless steel. Suitable extraction accessories can be found from page 50 onwards. Other accessories on request.

**If you have any questions, we are happy to help.**

Extraction arms

Extraction hoods

Protective walls  
Curtains / Lamellas

Extraction cabins

Soundproof  
partition walls

Slotted suction  
channels

Extraction  
accessories

Extraction hoses

Pre-separators for  
extraction systems

Discharge systems

Safety systems

Post-filters

Spiral seam pipes/  
steel pipes

# 15 ESTA Service – Filter cleaning



Before | After

- ✓ **Effective**
- ✓ **Ecofriendly**
- ✓ **Affordable**



As of now, ESTA filter cartridges can be regenerated easily and within a very short time.

Using ultrasound, the special ESTA process thoroughly cleans the filter material of adhering dirt particles in an environmentally friendly way – without compromising on filter performance and separation efficiency.

## Impressive filter technology impresses!

### Application

- » Filter cartridges for the separation of dust and welding fumes\*

### Special features

- » Pre-cleaning
- » Visual inspection by ESTA specialists
- » Ultrasonic cleaning
- » Rinsing
- » Drying
- » ESTA final inspection

### Benefits

- » Extension of the service life of the filter cartridges by up to 10 times
- » Reduction of the spare parts costs by up to 50 %
- » Filter performance same as new cartridges
- » Careful testing and cleaning by ESTA specialists
- » Your active contribution to environmental protection without sacrificing performance and separation efficiency
- » Multiple filter cleaning possible

### Ultrasonic filter cleaning

ESTA cleans your filter using ultrasound that propagates in the form of longitudinal waves in the water. These vibrations cause so-called cavitation bubbles that implode and result in high localised pressures and currents, thereby effectively releasing the dirt from the filter material.

The optimum interaction of ultrasound, temperature and detergents enables effective cleaning of the ESTA filter cartridges up to new filter quality – filters from other manufacturers can also be regenerated easily by using this method.



Filter elements of the ESTA FILTOWER-F and DUSTMAC F welding fume filter systems can be regenerated repeatedly and at low cost

\* Ultrasonic cleaning can only be carried out for washable filter cartridges.



# ESTA Maintenance Service - *Think about tomorrow today!*

## ESTA maintenance service offers these advantages!

- Inspection of your extraction system by an experienced and well-trained ESTA team of service technicians
- Assurance of optimum functionality and performance of your extraction devices & systems, even many years after initial commissioning
- Minimising the risk of a loss in productivity
- Reducing the risk of expensive repair costs
- Maintaining the value of your system
- Regulatory compliance
- Detailed maintenance documentation to demonstrate compliance with legal requirements
- Short response times
- Reducing the workload for in-house service staff
- Permanent cleanliness of the workplaces

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Service telephone +49 (0) 7307 804-831

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Online support [www.esta.com/kontakt](http://www.esta.com/kontakt)

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Office hours

Monday to Thursday 8 am to 5 pm

Friday 8 am to 4 pm

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## ESTA maintenance contract – Your service bonus!

Enjoy even more benefits from the comprehensive range of services with an **ESTA maintenance contract** – so that you can concentrate fully on your production and keep track of your maintenance costs.

- Service provided at a fixed price – regardless of workload and time
- Prioritised appointments
- Reminder service for your individual maintenance interval



For maintenance, service and installation requests that are more urgent than usual. Ask for our express service by telephone at **+49 (0) 7307 804-830**.



## This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

## Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

# General Terms and Conditions

## 1. General information

- 1.1 These General Terms and Conditions (GTC) apply to all quotations submitted by ESTA and contracts entered into with ESTA. Our GTCs also apply to all future business transactions. For those transactions with consumers, however, only if they are identical with this business transaction.
- 1.2 These GTCs apply exclusively. The terms and conditions of the customer or other deviating agreements shall apply only insofar as ESTA has agreed to them expressly and in writing. Furthermore, ESTA hereby expressly vetoes the inclusion of the business conditions or other deviating agreements of the customer.
- 1.3 For the legal relationships of the parties, German law applies exclusively excluding the principles of conflict of laws of private international law and with the exception of the UN Convention on Contracts for the International Sale of Goods (CISG).
- 1.4 Where these GTCs use terms which are also used by the consumer/contractor, the legal definitions laid down in §§ 13/14 German Civil Code shall apply.

## 2. Quotations and Conclusions of Contracts

- 2.1 The quotations from ESTA are non-binding and subject to confirmation. ESTA shall be bound to especially developed quotations for thirty (30) calendar days. Prior to acceptance by the customer, ESTA can retract these quotations at any time.
- 2.2 A contract is concluded at the written request of the customer (order) as soon as acceptance by ESTA of the request is confirmed in writing (order confirmation) or by delivery of the ordered goods or fulfillment of the service owed. The order of the customer is binding for the customer until it is accepted or rejected by ESTA, but for a maximum period of three weeks. This period begins from the point in time when the order is received by ESTA.
- 2.3 The information in our catalogues, brochures, circulars, advertisements, illustrations and price lists concerning the performance, dimensions, weights, price, etc. is non-binding unless it has been expressly specified as part of the contract.
- 2.4 Documents that are part of a quotation such as illustrations, drawings, weights and dimensional information are deemed as only approximate unless they have been expressly declared as binding. ESTA reserves the right to amend the order provided this does not change the delivery object and its appearance significantly. ESTA retains ownership and rights for cost estimates, drawings and other documentation; furthermore, they must not be made accessible to third parties. ESTA is obligated to obtain the contractual partner's approval to show plans that are designated as confidential to third parties.

## 3. Content of the contract

- 3.1 For the extent and method of services to be provided, the information specified in the order confirmation from ESTA applies and if no order confirmation has been issued, the information provided in quotations from ESTA is authoritative.
- 3.2 ESTA reserves the right to make changes to the design and form with regard to execution of the order as long as this does not change the delivery object and its appearance significantly.

## 4. Prices, terms of payment and default in payment

- 4.1 Unless agreed otherwise, the list prices valid on the day of conclusion of the contract are applicable ex-works (ESTA main premises), plus value added tax (VAT), but not including packaging, transportation, insurance, customs duties and unloading, provided the delivery of the goods and/or services owed is to be made within four months after the conclusion of the contract. Otherwise the list prices valid at the time of fulfillment of the contract are applicable. In the event of actual later delivery and/or performance of services, the prices that are valid on the day of delivery are applicable if the delivery/performance of services is made more than four months later for reasons that are the customer's responsibility.
- 4.2 If a fixed price has been agreed with a contractor, ESTA reserves the right to add any increase in labour or material costs that has been incurred during the time of the contract was concluded and delivery is made/services are performed. If the price increase amounts to more than four percent, the customer can withdraw from the contract by written notice within two weeks from receipt of notification of the price increase.
- 4.3 The receivables for ESTA are due in full on delivery of the goods/unloading approval of the services performed. The customer will be in default at the latest 14 days after the due date of our receivables without further notice from ESTA.
- 4.4 Unless otherwise agreed, payment must be made without any deductions and free of charges to an account of ESTA. Payments are to be made as follows: A down payment of 1/3 after receipt of order confirmation, 1/3 after the order has been confirmed, and the remaining balance is due for shipment or at the services can be performed, and the remaining balance as specified in section 4.3.
- 4.5 Cheques, bills of exchange and other methods of payment will only be accepted by special agreement and solely as conditional payment.
- 4.6 The assignment of claims against ESTA is only permissible following the prior written consent of ESTA.
- 4.7 The customer does not have the right of retention per § 273 of the German Civil Code insofar as the claims are not undisputed or legally established. In the event that the customer is a consumer, this applies only insofar as it concerns a right of retention that is not based on the same legal relationship.
- 4.8 For contracts with contractors, the right to object if the contract is not fulfilled (§ 320 German Civil Code) is furthermore excluded.
- 4.9 If after conclusion of the contract, the economic conditions of the customer change in a way where the claims of ESTA do not seem to be sufficiently secured, ESTA can demand a further advance payment or other form of security. If the customer refuses this, ESTA reserves the right to withdraw from the contract after a period of grace of fourteen days has passed without result.

## 5. Delivery time, default and partial deliveries

- 5.1 Specified deadlines for the delivery of shipments or services to be performed are non-binding. Deviating arrangements must be agreed upon explicitly and in writing between the parties. In this case, the deadline commences with receipt of the order confirmation, however not before the customer has submitted the required documents, permits, releases and not before any agreed down-payment. The deadline is met if, before expiry of the time limit, the delivery object has left the factory or if ESTA has performed the agreed services or if the delivery objects are ready for shipment and ESTA has informed the customer of this fact. In the event of subsequent changes to the delivery object, the delivery deadline will be extended accordingly.
- 5.2 If a definite deadline has been agreed with contractors for the delivery, exceeding this deadline represents a default in delivery only after a reminder and a period of grace of at least two weeks given to ESTA has passed without any results. The customer can only withdraw from the contract or claim damages in lieu of fulfillment after a delay in delivery has occurred and after a reasonable period of grace has expired without result.
- 5.3 In the event of unforeseen circumstances that are beyond ESTA's control, such as disruption of business operations, strikes, lockouts, complete or partial closures of a supplier company, for whatever reasons, in the event of regulatory actions as well as in all other cases of force majeure, the delivery deadline will be postponed for the duration of the interruption and the elimination of the effects on the company's operations. This also applies if these circumstances occur at a supplier or subcontractor of ESTA.
- 5.4 In the event of a delivery to a contractor, if ESTA can prove that despite careful selection of its suppliers and in spite of concluding the necessary contracts concerning appropriate terms, ESTA cannot receive deliveries from the suppliers on time, the delivery deadline will be extended by the period of the delay caused by the late delivery from the suppliers. If it is impossible for the supplier to deliver, ESTA reserves the right to withdraw from the contract.
- 5.5 Exceeding the delivery deadline does not entitle the customer to refuse acceptance.
- 5.6 Partial deliveries are permissible insofar as the customer can be reasonably expected to accept the result.
- 5.7 The customer bears the costs of shipping from the ESTA branch site unless they exceed a reasonable proportion of the value of the delivery object. Unless otherwise agreed, ESTA will select packaging and shipping at its discretion. Insurance against transport damage of any kind is only undertaken at the express wish of the customer and the cost of the amount spent will be invoiced to the customer.

## 6. Transfer of risk

- 6.1 The risk passes to the customer after the delivery object has left the factory. This also applies if partial deliveries are made or if ESTA has assumed other services, e.g. freight charges or delivery and set-up. If there is to be an acceptance test, this will be authoritative for the transfer of risk. It must be performed immediately on the acceptance date, or alternatively after notification regarding completion has been received.

- 6.2 If the delivery object is ready for shipment and shipping is delayed for reasons that are the responsibility of the customer, the risk passes to the customer with the receipt of the notification that the object is ready for shipment.

- 6.3 Delivered objects are to be accepted by the customer, even if they have insignificant defects, regardless of the rights of section 11.

## 7. Default of acceptance

- 7.1 The customer is in default of acceptance of the delivery/service to be performed by ESTA when ESTA notifies them in writing of the readiness to ship or to perform the service and the customer refuses the delivery or performance of the service and/or, despite an express request to accept delivery/performance of the service, they do not confirm their consent to acceptance within three days after receipt of the written request. Otherwise the statutory provisions concerning default of the creditor apply.
- 7.2 If the customer is in default of acceptance, they must pay 0.25 % of the net order amount for each week started up to a maximum of 5 % for storage costs. The proof of greater loss is the responsibility of ESTA. The right of the customer to submit proof to ESTA of lower storage costs also remains unaffected.

- 7.3 If after the occurrence of the default, the customer has delayed the acceptance of the delivery object for more than one week, ESTA reserves the right to dispose of the delivery object otherwise and to provide an equal item in fulfillment of the contract within four weeks from the date of its disposal. The continuance of the due date of the purchase price and any interest on arrears remains unaffected. In this event, the customer must pay the purchase price in advance after the due date with the consequence of the exclusions of the right to return if the defect is not fulfilled.

## 8. Claims for damages against the customer

- 8.1 In all cases of claims for damages against the customer, instead of the performance of the delivery or service, ESTA can dispose freely of the delivery object.
- 8.2 Within the scope of the dissolution of this claim for damages, ESTA reserves the right to claim 20 % of the net order total as general compensation for ESTAs lost profit without any requirements of proof. The right to claim any additional damages remains unaffected. The right of the customer to provide proof to ESTA of a lesser damage remains unaffected.

## 9. Retention of title

- 9.1 ESTA retains ownership of all objects that are delivered by ESTA until the payment of all monetary receivables existing in connection with the delivery object resulting from the contract have been received. If the customer is a contractor, ESTA retains title of the goods until all payments resulting from the business relationship with the customer have been received.
- 9.2 Unless otherwise stated below, the customer cannot resell the delivery object before the full purchase price has been paid. If it is part of the normal business operations of the customer to resell the items delivered by ESTA to third parties, the customer has the right to resell the goods in the normal conduct of business. In the event of the permissible or non-permissible sale of the delivery object, the customer now assigns us all receivables in the amount of the respective invoice amount (including value added tax) resulting from the sale to their customers or third parties independent of the fact of whether or not the delivery object has been processed further prior to the sale. The customer is entitled to collect these accounts receivable after they have been assigned. ESTAs authorisation to collect the receivable ourselves remains unaffected by this. Nevertheless, ESTA promises not to collect the receivable ourselves as long as the customer resells the delivery object with authorisation and meets his payment obligations to ESTA in a timely manner, especially without payment default.
- 9.3 If the customer breaches the contract, especially through default in payment, ESTA has the right to repossess the delivery objects. The customer is obligated to surrender the goods. If the customer is a consumer, ESTA first sets a deadline and notifies withdrawal when it expires. If the customer is a contractor, the repossession of the delivery object by ESTA does not constitute withdrawal from the contract unless ESTA has expressly stated this in writing. In cases where the items have been resold to third parties, the customer is obligated to inform ESTA of their receivables and their debtors including all information that is required to collect the receivables, to hand over the associated documents to ESTA and to inform the debtor of the customer of the cessation.

- 9.4 If after payments or other third party claims concerning the delivery object, the customer must notify ESTA immediately in writing and forward all necessary documents for an intervention to ESTA.

- 9.5 Until the final transfer of ownership, the customer is obligated to insure the delivery object sufficiently against theft, breakage, fire and water damage at their own expense. Corresponding proof of insurance must be presented to ESTA on request.

- 9.6 With regard to the utilisation of the goods subject to retention of title and receivables assigned to us, the following applies: ESTA is authorised to utilise the released items subject to retention of title to the best of its judgement and in particular to sell them at their own discretion. The proceeds of disposal of the goods less the incurred expenses will be applied against the outstanding receivables of the purchase. Any surplus will be paid out to the customer. ESTA can collect receivables assigned to ESTA directly from the buyer of the customer. The collected receivables less any incurred expenses will be applied against the purchase price, any and any surplus will be paid out to the customer.
- 9.7 Insofar as the possible value of all security interests assigned to ESTA exceeds the value of all secured receivables by more than 10 %, ESTA will release the portion of the security interests in excess of the value of the receivables. ESTA reserves the right to choose the security interests that are to be released.

## 10. Withdrawal

- 10.1 The customer can only withdraw from the contract in accordance with legal provisions if ESTA is responsible for the breach of duty. If there are breaches, and after being requested by ESTA, the customer must explain within a reasonable time whether they will withdraw because of the breach of the contract or insist on delivery.
- 10.2 In the event of defects, the statutory provisions on withdrawal shall apply however.

## 11. Rights accruing from defects

- 11.1 If the customer is a contractor, claims for defects do not apply in the event of any negligible deviation from the agreed quality or in the event of only negligible impairment of usability.
- 11.2 Defects that are so obvious that they are apparent even to a non-expert customer without close inspection must be reported to ESTA in writing within a period of grace of 7 days after delivery or acceptance. It is sufficient to send the written notification within the time limit. The defects must be described in as much detail as possible. If the customer is a contractor, § 377 of the German Commercial Code applies exclusively.
- 11.3 Otherwise defects must be reported to ESTA in writing without undue delay and giving a detailed description of the problem.
- 11.4 If provided for by law, in the event of a defect ESTA has the choice of supplementary performance by delivering or manufacturing a new item or eliminating the defect. If, within the scope of the statutory rights arising from defects, ESTA chooses supplementary performance, all exchanged parts become the property of ESTA.
- 11.5 For carrying out all reworking or substitute deliveries which ESTA deems necessary, upon notifying ESTA of the problem, the customer must grant ESTA the necessary time and opportunity to remedy the problem; otherwise ESTA is released from any liability for resulting consequences. Only in urgent cases of danger to operational safety or to prevent excessive damage, of which ESTA must be notified immediately, the customer is entitled to correct the fault himself or to have the defect eliminated by third parties and to claim reimbursement of the necessary expenses from ESTA.
- 11.6 Especially in the following cases, the customer is not entitled to rights accruing from defects: Improper use or use other than intended use, incorrect assembly or commissioning by the customer or a third party, normal wear and tear, incorrect or neglectful handling, inappropriate maintenance, unsuitable operating materials, faulty construction work, unsuitable construction ground, chemical, electrochemical or electrical influences – insofar as they are not the responsibility of ESTA.
- 11.7 If the customer or a third party makes improper repairs, ESTA is not liable for the resulting consequences. The same applies to changes that are made to the delivery object without obtaining the prior consent of ESTA.
- 11.8 If the use of the delivery object leads to a violation of domestic industrial property rights or copyrights, ESTA will obtain authorisation at its own expense for the customer to obtain a licence or to modify the delivery object in a way that will eliminate the violation of the protected rights in a manner that is reasonable for the customer. If this is not possible under economically reasonable conditions or within a reasonable period of time, the customer has the right to withdraw from the contract. Under the stated requirements, ESTA also has the right to withdraw from the contract. Furthermore, ESTAs claim against the customer from undamaged or less damaged established claims of the respective holders of the intellectual property rights.

- 11.9 The obligations of ESTA as outlined in section 11.8 are final in the case of a violation of protected rights or copyrights. They exist only if:

- the customer notifies ESTA immediately of alleged infringements of protected rights or copyrights,
- the customer supports ESTA adequately in its defence against the alleged claims or enables ESTA to perform the modification measures as described in section 11.8,
- ESTA reserves the right to exercise all defensive measures including out of court settlements,
- the defect of title is not the result of an instruction by the customer
- and the infringement was not caused by the fact that the customer has modified the delivery object arbitrarily or has not used it as provided in the contract.

- 11.10 If the delivery object cannot be utilised by the customer as agreed in the contract through the fault of ESTA as a result of omission or faulty execution of proposals and consultations before or after the contract was concluded or through violation of other secondary contractual obligations – especially the availability of a manual for operation and maintenance of the delivery object – the regulations as described in sections 11.1 to 11.7 apply accordingly.

## 12. Liability

- 12.1 In accordance with the legal regulations, ESTA is liable in cases of intent or gross negligence of ESTA or a representative or vicarious agent. In all other cases, we are liable only in accordance with the product liability law, by reason of the damage to life, body or health, by reason of culpable violation of fundamental contractual obligations or insofar as ESTA has maliciously concealed a deficiency or assumed a guarantee for the condition of a delivery object or works performed. The claim for damages from the violation of fundamental contractual obligations is however limited to the foreseeable damage that is typical for the contract unless a further case of mandatory liability pursuant to sections 1 and 2 exists at the same time.
- 12.2 The provisions of 12.1 apply to all claims for damages, whatever the legal reason, especially as a result of defects, breach of duties under the obligation or from unlawful acts. They also apply to reimbursement of fruitless expenditure, damages due to loss of production and the loss of materials necessary for production. The liability for delay is determined in accordance with section 12.3 and for impossibility in accordance with section 12.4 of these terms.
- 12.3 In the event of delays in performance in cases of intent or gross negligence on the part of ESTA or a representative or vicarious agent, ESTA shall be liable in accordance with the statutory regulations. Apart from the cases in clause 1, the liability of ESTA due to delay for damages in addition to performance and/or in lieu of performance, including compensation of fruitless expenditure, is limited to a total of 15 % of the net order total. The limitation does not apply in case of culpable breach of contractual obligations. The claim for damages from the violation of fundamental contractual obligations is however limited to the foreseeable damage that is typical for the contract, unless a further case according to § 1. section 12.3. has occurred at the same time. Further claims or insofar as the customer is also excluded after expiry of a deadline set by ESTA for performance.
- 12.4 Section 12.3 applies accordingly if there is an impossibility of performance with the change that the customer's claim for damages in addition and / instead of performance, including compensation for fruitless expenditure, is limited to 10 % of the value of the delivery.
- 12.5 The right of the customer to withdraw from the contract and the provisions of sections 12.1., 12.3 and 12.4 remain unaffected.
- 12.6 No change of the burden of proof to the disadvantage of the customer is associated with the preceding regulations.

## 13. Statute of limitation for consumers

For contracts with consumers, the following applies:

- 13.1 For claims for damages in connection with the delivery of the object, as a result of defects – for whatever legal reason – is one year.
- 13.2 The deadline as stated in section 13.1 also applies to other damage claims against ESTA, regardless of their legal basis. It is also applicable if the claims are not associated with a defect.
- 13.3 For work contracts, section 13.1 shall apply mutatis mutandis to all claims for damages in connection with the delivery of the object, as a result of other damage claims against ESTA, regardless of their legal basis it is also applicable if the claims are not associated with a defect.
- 13.4 All statutes of limitations according to sections 13.1 to 13.3 apply subject to the following provisions:
  - a) The limitation periods generally do not apply in cases of intent.
  - b) They also do not apply if ESTA has maliciously concealed a deficiency or if ESTA has adopted a guarantee for the quality of a delivery object.
  - c) The aforementioned limitation periods per section 13.1 do not apply if the delivery object is a structure or an object that is commonly utilised for a structure and is causing the defect. In turn, the limitation period of section 13.3 also does not apply for structures or works whose success depends on the performance of planning or supervisory services.
  - d) Lastly, the limitation periods do not apply for damage claims in the event of injury to life, the body, health or freedom, for claims in accordance with the product liability law, for a grossly negligent breach of duties or a culpable violation of fundamental contractual obligations.

- 13.5 The statute of limitations begins with the delivery or, in the case of contracts for services, with the acceptance.

- 13.6 Wherever this provision mentions compensation claims, this shall also include claims for reimbursement of fruitless expenditure.

- 13.7 Unless expressly agreed otherwise, the statutory provisions on the start of the period of limitations, suspension of the expiry of the limitation periods, suspension and commencement of the limitation periods remain unaffected.

- 13.8 No change in the onus of proof to the disadvantage of the contractual partner is associated with the preceding regulations.

## 14. Statute of limitation for contractors

For contracts with contractors, the following applies:

- 14.1 The statute of limitation concerning claims and rights of the contract partner resulting from defects in supplies and/or services performed – whatever the legal reason – is one year. However, this does not apply in the cases of § 438 I No. 1 German Civil Code (defects of title with immovable items), § 438 I No. 2 German Civil Code (structures, items for structures), § 479 I German Civil Code (claims under right of recourse) or § 634a I No. 2 German Civil Code (structures or works where their success depends on the performance of planning or supervision services). In these cases, the statute of limitation is three years.

- 14.2 The statutes of limitations according to clause 14.1 also apply – whatever the legal reason – for all damage claims against ESTA that are associated with a defect. Insofar this correlation does not exist, the statute of limitations is one year.

- 14.3 Otherwise clauses 13.4 a), b) and d), 13.5 to 13.8 apply accordingly.

## 15. Software usage

If software is included in the scope of delivery or services, the customer is given a non-exclusive right to use the software and its documentation. It is made available for use on the object for which it is intended. The use of the software on more than one system is prohibited. The customer may only copy, revise, translate or convert the software from the object code into the source code to the extent permitted by law. The customer undertakes not to remove manufacturer details – especially copyright notices – or to change such details without the prior express written approval of ESTA. All other rights concerning the software and the documentation including copies thereof are retained by ESTA or the software supplier. The granting of sub-licenses is not permitted.

## 16. Place of Jurisdiction and Place of Performance

- 16.1 The place of performance for ESTAs obligations arising from the contractual relationship is Sندن, Germany.

- 16.2 In respect of all claims arising from the business relationship with contractors, including actions on documents, cheques and bills of exchange, the place of performance is Sندن.

## 17. Applicability of the General Terms and Conditions

- 17.1 Should one of the clauses of these General Terms and Conditions or a contract made with ESTA be or become invalid, the validity of all other clauses remains unaffected.
- 17.2 Amendments and additions to the contract can only be made in writing by the company management or a specially appointed legal representative of ESTA. Verbal side agreements and subsequent changes to the contract by other persons are only legally binding if they have been confirmed in writing by ESTAs company management. The waiving of this written form requirement must itself also be made in writing.

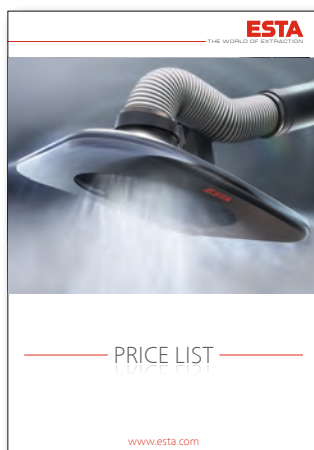
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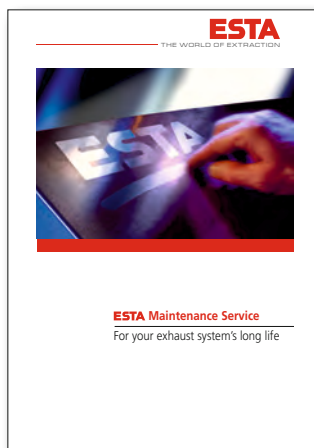
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#### ESTA Apparatebau GmbH & Co. KG

Gotenstraße 2–6  
89250 Senden/GERMANY  
Phone +49 7307 3409680-0  
Fax +49 7307 804-500  
E-Mail [info@esta.com](mailto:info@esta.com)