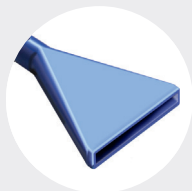
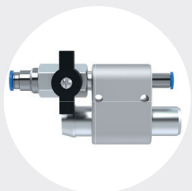


Product overview: Suction machines, Vac-Blast Cleaners & accessories



Content

Page

Suction Gun SP 10 / SP 14

effectively sucks off abrasions, contaminating particles or short chips at assembly work stations and work-shops.



4

Suction Nozzle FD 10 / FD 14

provides constant suction air flow for continuous operations in machines, installations or production lines.



6

Vac-Blast Cleaner BS 23 / BSF 23

removes and effectively sucks off virtually inaccessible particles from recesses and bore holes.



8

Aerosol Suction Cleaner MS 15

effectively sucks off moist particles such as short metal chips during thread cutting.



12

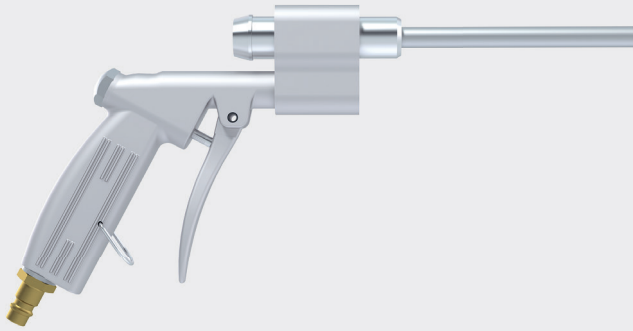
Options and accessories

The machines may be equipped with brushes, nozzles filters and debris containers. They may thus adapt to a great variety of different applications.



14

Suction Gun SP 10 / SP 14

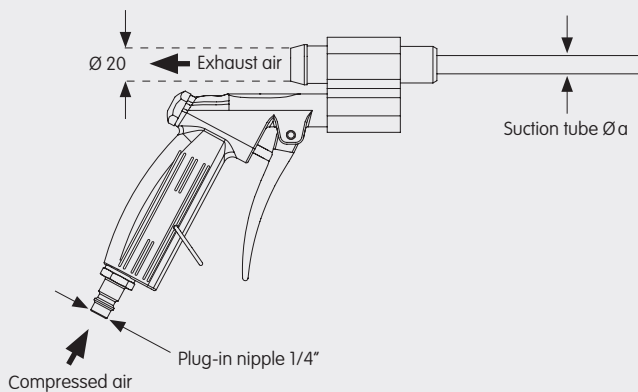


The Suction Gun.. is ideal to effectively remove non-toxic particles and short chips. The suction air flow functions according to the Venturi principle: Compressed air passes a ring nozzle thus creating a vacuum within the suction tube. The incoming air conducts the particles and chips towards the exhaust air hose. Suction performance may be regulated infinitely via a hand lever.

Different brushes, nozzles and filters are available as an option. They allow the Suction Gun to be used flexibly in a wide variety of applications.

Two types of this Suction Gun are available:
 SP 10 with a suction tube diameter of 10 mm and
 SP 14 with a suction tube of 14 mm.

Technical data



Details in mm

Pneumatic details

Compressed air	filtered (particle size < 40 µm), oil free (residual oil < 1.5 mg/m³ at 24 °C)
Compressed air connection	1/4"; 6 bar

Compressed air	SP10	SP14
Connection	Inside diameter DN 7,2 - 7,8 mm	Inside diameter DN 7,2 - 7,8 mm
Consumption (at 1.013 bar and 20 °C)	300 l/min; 6 bar	400 l/min; 6 bar
Suction capacity		
Vacuum	-350 mbar (35%)	-350 mbar (35%)
Suction volume flow	300 l/min	600 l/min
Acoustic emission	81 dB(A)	83 dB(A)
Weight	430 g	450 g
Suction tube Ø a	10 mm for particles Ø < 7 mm	14 mm for particles Ø < 9.5 mm

Technical data are subject to change

For dry or moist particles
e.g. non-toxic dust or short chips
during thread cutting

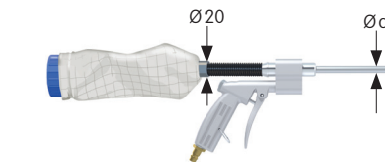


Order no.

10042707 Suction Gun SP 10
suction tube $\varnothing a = 10$ mm. Connection for
exhaust air with inside $\varnothing$ DN 20 mm

1018010 Suction Gun SP 14
suction tube $\varnothing a = 14$ mm. Connection for
exhaust air with inside $\varnothing$ DN 20 mm

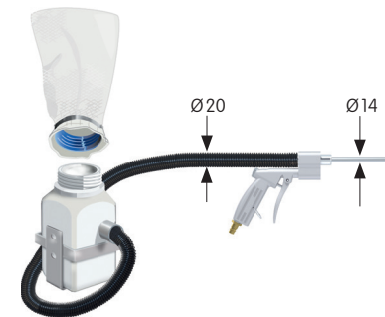
For dry,
non-toxic particles
and short metal chips



013-210 Suction Gun SP 10 WS with felt filter bag
suction tube diameter $a = 10$ mm

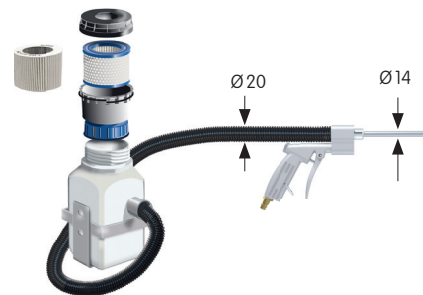
014-211 Suction Gun SP 14 WS with felt filter bag
suction tube diameter $a = 14$ mm
Including:
- felt filter bag with screw cap
- 0,3 m antistatic exhaust air hose,
DN 20 mm

For dry,
non-toxic particles
and short metal chips



014-221 Suction Gun SP 14 MB 1.5
1.5 litre container with felt filter bag
suction tube $\varnothing a = 14$ mm
Including:
- 1.5 litre container with removable
felt filter bag, support with mounting
bracket for wall-assembly,
- 3 m antistatic exhaust air hose, DN 20 mm

For moist particles
e.g. short metal shavings
during thread cutting



014-231 Suction Gun SP 14 MB 1.5
with 1.5 litre container and aerosol filter
suction tube $\varnothing a = 14$ mm

014-233 Suction Gun SP 14 MB 1.5 with 1.5 litre
container and fine filter for dry particles
suction tube $\varnothing a = 14$ mm

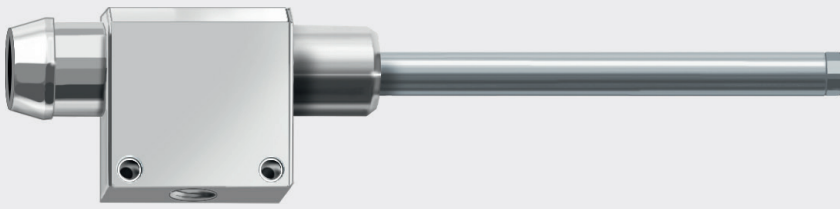
Including:
- 1.5 litre container with removable filter
housing, support with mounting bracket for
wall-assembly,
- 3 m of antistatic exhaust air hose,
DN 20 mm

For moist particles
e.g. short metal shavings
during thread cutting



014-251 Suction Gun SP 14 MB 30 with
30 l container and two aerosol filters
suction tube $\varnothing a = 14$ mm
Including:
30 l container and two removable
aerosol filters
- 3 m antistatic exhaust air hose, DN 20 mm

Suction Nozzle FD 10 / FD 14



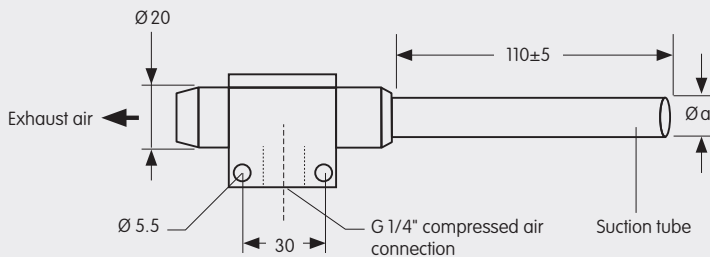
The Suction Nozzle FD.. has been designed for 24/7 operations in machines, installations and production lines. There are two bore holes to mount the nozzle in a fixed position. You may effectively remove rubbed-off parts, short chips or dust particles with this device. The suction nozzle functions according to the Venturi principle: Compressed air passes a ring nozzle thus creating a vacuum within the suction tube. The incoming

air conducts particles and chips towards the exhaust air hose.

Two types of this Suction Nozzles are available.

FD 10 with 10 mm suction tube diameter and FD 14 with 14 mm suction tube diameter. The latter may also be equipped with a variety of brushes and nozzles.

Technical data



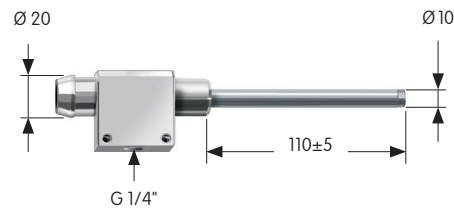
Pneumatic details

Compressed air	filtered (particle size < 40 µm), oil free (residual oil < 1.5 mg/m ³ at 24 °C)	
Compressed air connection	1/4"; 6 bar	

Compressed air (6 bar)	FD 10	FD 14
Connection	1/4"	1/4"
Consumption (at 1.013 bar and 20 °C)	290 l/min	440 l/min
Suction capacity		
Vacuum	-350 mbar (35%)	-350 mbar (35%)
Suction volume flow	250 l/min	500 l/min
Acoustic emission	79 dB(A)	83 dB(A)
Weight	140 g	160 g
Suction tube Ø a	10 mm for particles Ø < 7 mm	14 mm for particles Ø < 9.5 mm

Technical data are subject to change

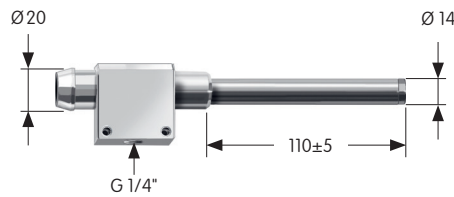
For dry or moist particles
e.g. abrasions, short chips or dust



Order no.

1003000 Suction Nozzle FD 10
suction tube diameter 10 mm
for particle diameters up to 7 mm

Connection for exhaust air DN 20 mm
Threading G 1/4" for compressed
air connection
Two mounting holes Ø 5.5 mm



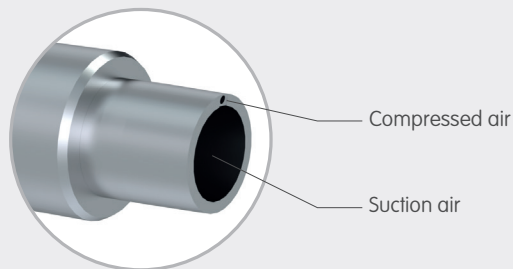
1004000 Suction Nozzle FD 14
suction tube diameter 14 mm
for particle diameters up to 9.5 mm

Connection for exhaust air DN 20 mm
Threading G 1/4" for compressed
air connection
Two mounting holes Ø 5.5 mm

Vac-Blast Cleaner BS 23 / BSF 23



Vac-Blast Cleaners are high precision devices to detach and absorb adhesive particles and short chips



Felt filter bag for dry particles



Aerosol filter for moist particles



Fine filter for dry particles

The Vac-Blast Cleaner is ideal to remove non-toxic particles and short chips. The suction air flow functions according to the Venturi principle: Compressed air passes a ring nozzle thus creating a vacuum within the suction tube. The incoming air transports the particles and chips towards the exhaust air hose and the debris container.

By moving a lever at the Vac-blast unit, an additional compressed air jet will be activated at the **Vac-Blast Cleaner BS 23**. This jet detaches persistent contaminations from the surfaces and removes adhesive particles from recesses. The **Vac-Blast Cleaner BSF 23** is installed in a fixed position. Here, the suction and compressed air jets are always activated.

Technical data

Pneumatic details

Compressed air quality filtered (particle size < 40 µm),
oil free (residual oil < 1.5 mg/m³ at 24 °C)

Compressed air connection 1/4"; 6 bar

Compressed air consumption at 1.013 bar, 20 °C	BS 23 / MB 1.5	BSF 23 / MB 1.5	BS 23 + BSF 23 / MB 2
in suction mode <u>only</u>	410 l/min	400 l/min	325 l/min
in Vac-blast blowing mode	445 l/min	440 l/min	365 l/min

Suction capacity	BS 23 / MB 1.5			BSF 23 / MB 1.5			BS 23 + BSF 23 / MB 2
	Filter 01	Filter 02	Filter 03	Filter 01	Filter 02	Filter 03	
Vacuum	-330 mbar	-320 mbar	-330 mbar	-330 mbar	-320 mbar	-330 mbar	-330 mbar
Suction volume flow	410 l/min	380 l/min	400 l/min	440 l/min	420 l/min	430 l/min	265 l/min

Acoustic emission LpA	BS 23 / MB 1.5	BSF 23 / MB 1.5	BS 23 + BSF 23 / MB 2
in suction mode	73 dB(A)	75 dB(A)	60 dB(A)
in Vac-blast mode	74 dB(A)	76 dB(A)	67 dB(A)

Volume debris container

MB 1.5 1.5 l
MB 2 2 l

Particle diameter

Max. particle diameter 10 mm

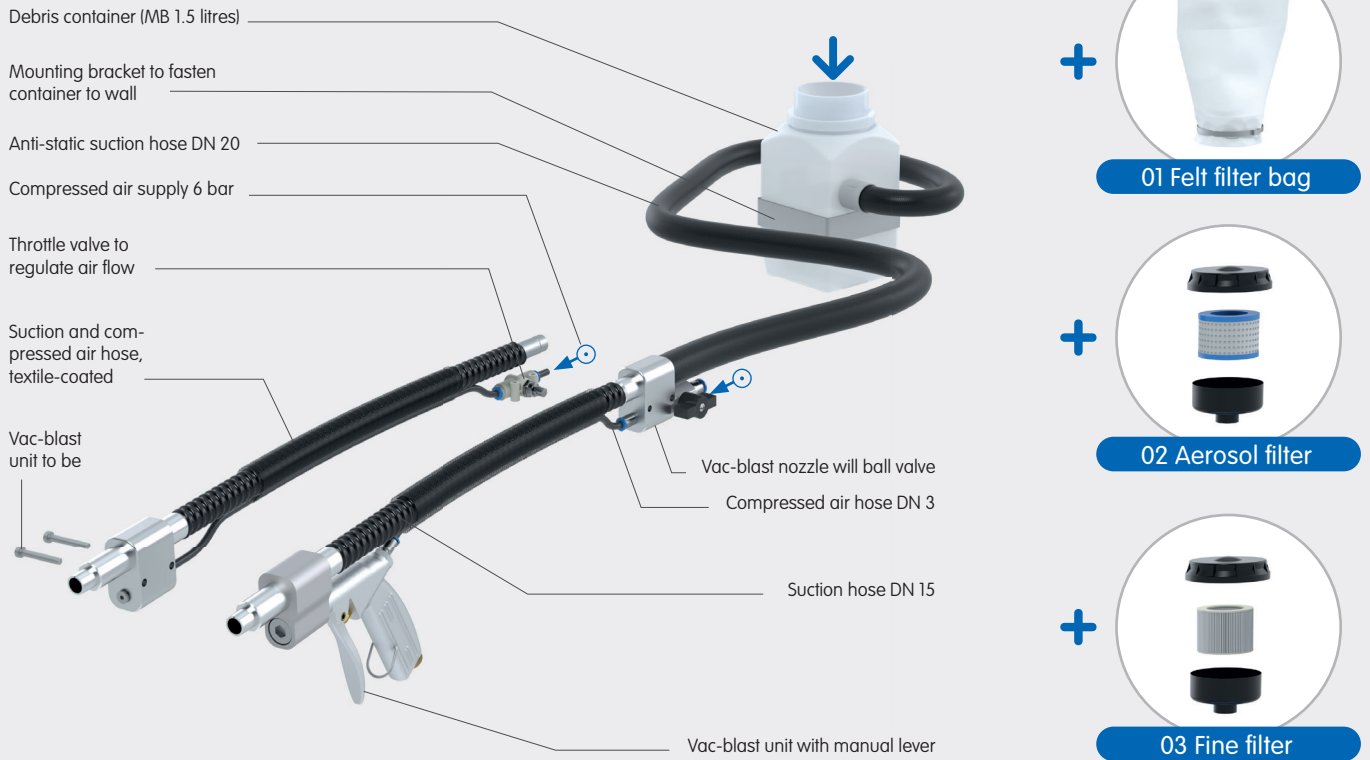
Technical data are subject to change

Spare parts

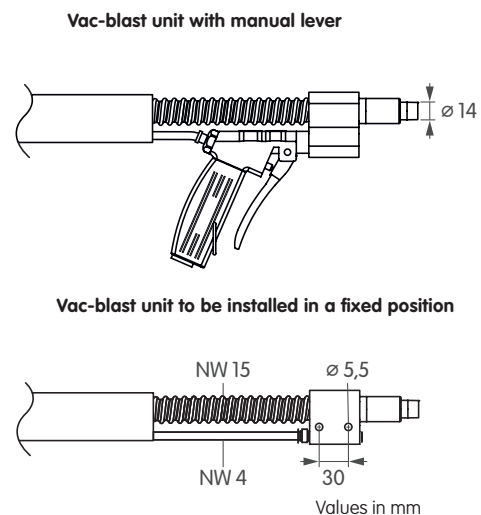
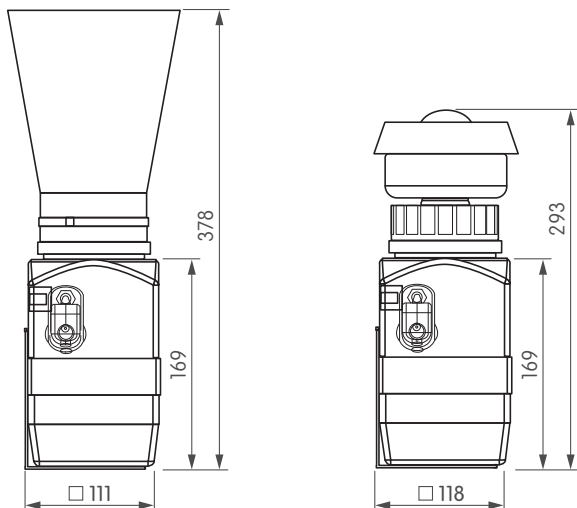
Order no.	Description	Type of machine
100 598 88	Vac-blast unit to be installed in a fixed position	for BSF 23 / MB 1.5
100 605 22	Vac-blast unit to be installed in a fixed position	for BSF 23 / MB 2
100 605 03	Vac-blast unit with manual lever	for BS 23 / MB 1.5
100 597 08	Vac-blast unit with manual lever	for BS 23 / MB 2
100 598 27	Vac-blast nozzle FD 23/01 will ball valve	for BS 23 / MB 1.5

Vac-Blast Cleaner with 1.5 litre container

There are three options to attach a filter onto the 1.5 litre container. The felt filter bag is suitable for dry, non-toxic particles and short metal shavings. The filter housing comes either with an aerosol filter insert for moist particles or with a fine filter for dry particles. All options include the following: Mounting bracket to fasten container to wall, antistatic suction hose DN 20, suction and compressed air hose (1.5 m each).



Order no.	Description	Filter	Vac-blast unit
100 603 79	Vac-Blast Cleaner BS 23 / MB1.5 / 01	Felt filter	with manual lever
100 605 23	Vac-Blast Cleaner BSF 23 / MB1.5 / 01	Felt filter	for installation in a fixed position
100 603 80	Vac-Blast Cleaner BS 23 / MB1.5 / 02	Aerosol filter	with manual lever
100 605 24	Vac-Blast Cleaner BSF 23 / MB1.5 / 02	Aerosol filter	for installation in a fixed position
100 605 17	Vac-Blast Cleaner BS 23 / MB1.5 / 03	Fine filter	with manual lever
100 605 25	Vac-Blast Cleaner BSF 23 / MB1.5 / 03	Fine filter	with manual lever

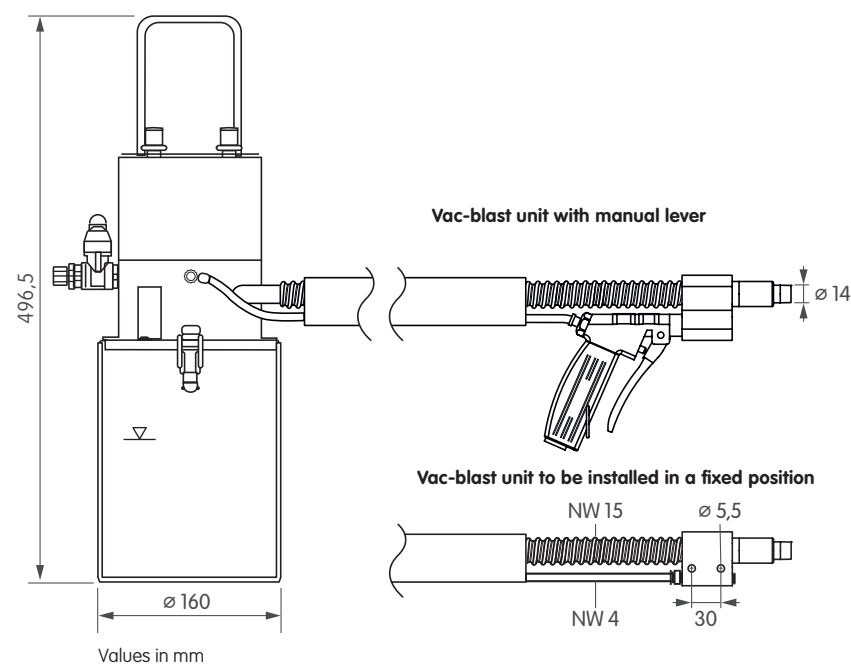


Vac-Blast Cleaner with 2 litre container

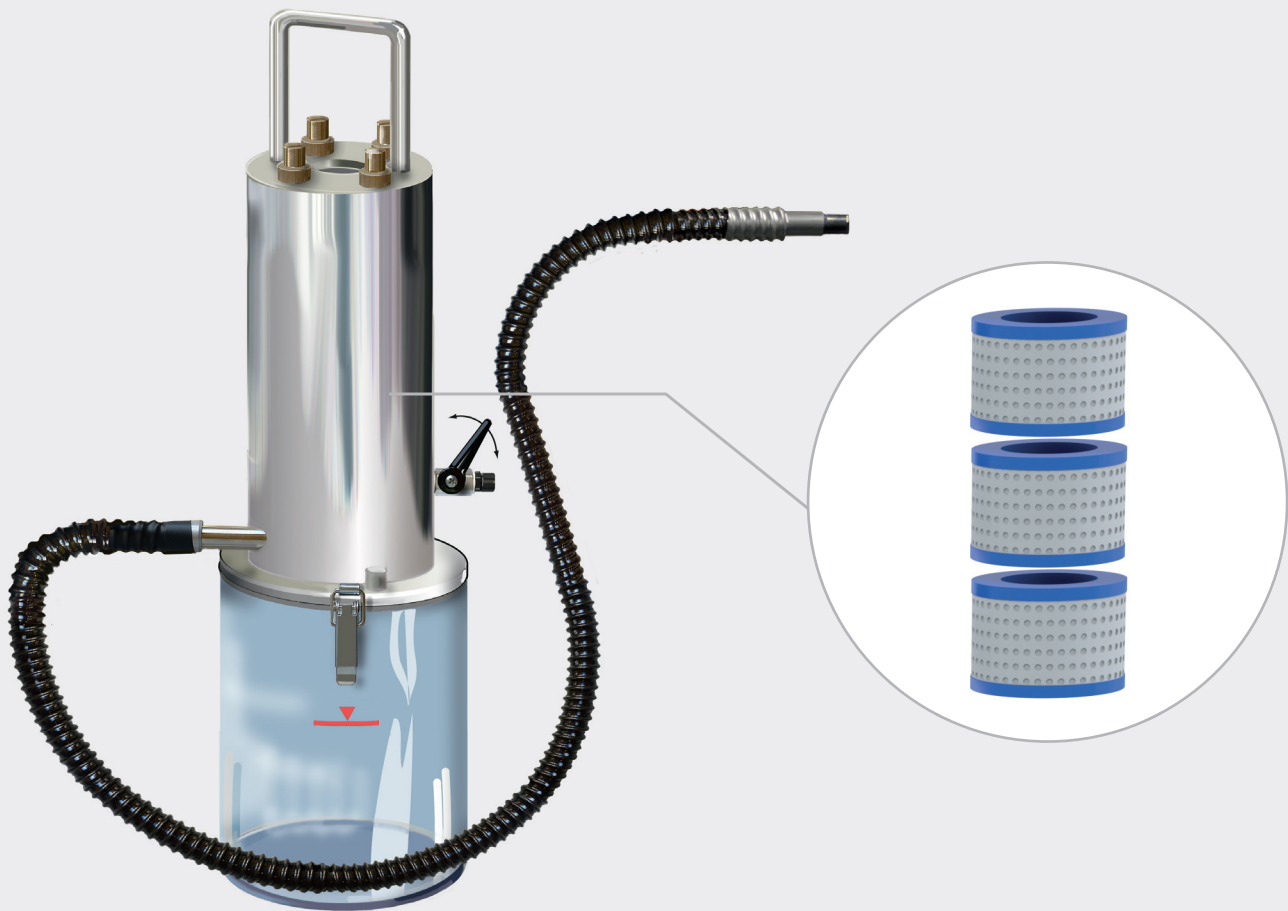
The Vac-Blast Cleaner with 2 litre container has a rigid filter housing for an aerosol filter. It is ideal to remove adhesive, moist particles from blind holes, e.g. short metal shavings. It comes with a suction and a compressed air hose, each with a length of 1.6 m. It is available either with a manual lever or for an installation in a fixed position.



Order no.	Description	Filter	Vac-blast unit
100 597 06	Vac-Blast Cleaner BS 23 / MB 2 / 01	Aerosol filter	with manual lever
100 605 26	Vac-Blast Cleaner BSF 23 / MB 2 / 01	Aerosol filter	for installation in a fixed position



Aerosol Suction Cleaner MS15 MB2



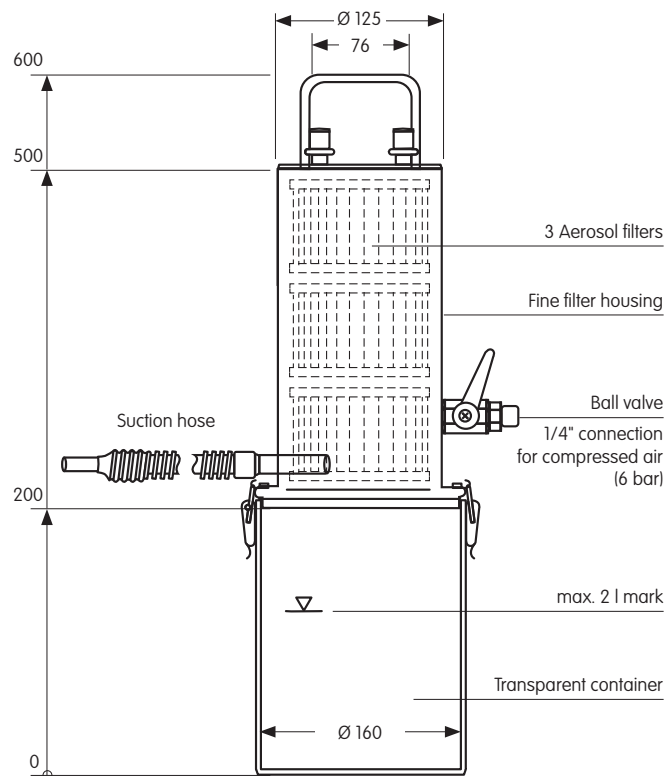
The **Aerosol Suction Cleaner MS 15 MB2** is ideal to effectively remove moist particles, e.g. short metal chips during thread cutting.

The sucking effect of the Aerosol Suction Cleaner can be activated by changing the position of a ball valve at the compressed air supply line. This feature functions according to the Venturi principle: Compressed air passes a ring nozzle thus creating a vacuum within the suction tube.

The incoming air transports the particles and chips towards the exhaust air hose and the debris container. There is an aluminium filter housing on top of the debris container. It contains three fine filters for the separation of aerosols.

Different brushes, nozzles and filters are available as an option. They allow the Aerosol Suction Cleaner to be used flexibly in a wide variety of applications.

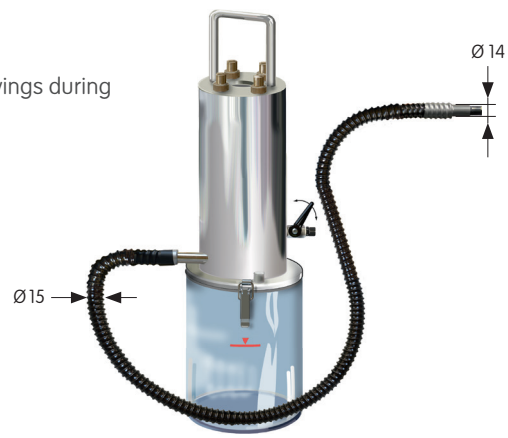
Technical data



Pneumatic details (6 bar)	
Compressed air quality	filtered (particle size < 40 µm), oil free (residual oil < 1.5 mg/m³ at 24 °C)
Compressed air connection	1/4"; 6 bar
Compressed air (6 bar)	
Connection	1/4"
Consumption (at 1.013 bar and 20 °C)	300 l/min
Suction capacity	
Vacuum	-350mbar (35%)
Suction volume flow	250 l/min
Sound pressure level	
	68 dB(A)
Container volume	
	max. 2 litres

Technical data are subject to change

For moist particles
e.g. short metal shavings during
thread cutting.



Order no.
103 60 43 Aerosol Suction Cleaner MS15 MB2
with 2 litre container and three
aerosol filters suction tube diameter 14 mm

Including:
- 2 litre container with filter housing on top
for 3 aerosol filters
- Suction unit with 1.6 m off suction hose
DN 15 mm

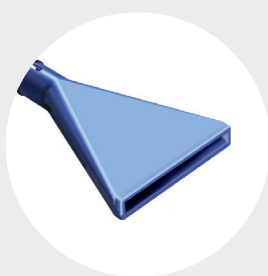
Options / Accessories

Flexible adaptation to numerous applications

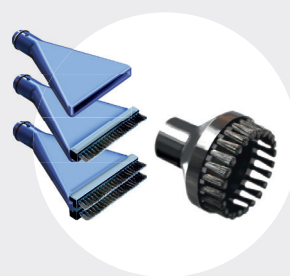
Different brushes and nozzles provide for an ideal adaptation to the subject surface. Further equipment is available making the daily job with the Vac-Blast Cleaner even more agreeable.



Brushes



Nozzles



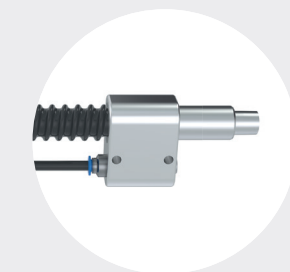
Set of brushes / nozzles



Filter



Containers / accessories

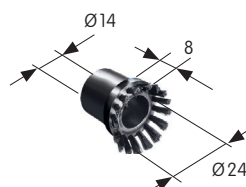
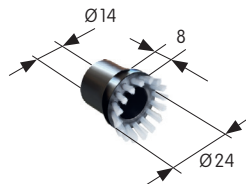
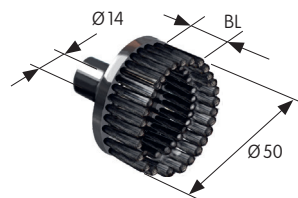
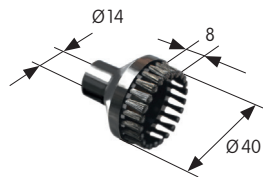
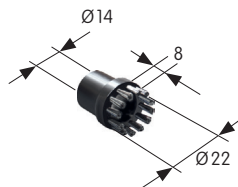
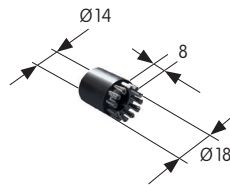


Hoses / other spare parts

Brushes

Round brushes are suitable for suction and blowing mode.

All round brushes have a connection with a nominal diameter of 14 mm.



Order no.

4106032 Round brush Ø 18 mm
white polyamide filaments
filament-Ø 0.1 mm
filament length 8 mm

4106049 Round brush Ø 18 mm
transparent polyamide filaments
filament-Ø 0.1 mm
filament length 8 mm

4106036 Round brush Ø 18 mm
black polyamide filaments
filament-Ø 0.2 mm
filament length 8 mm

41 06 051 Round brush Ø 22mm with soft filaments
white polyamide filaments
filament-Ø 0.1 mm
filament length 8 mm

41 06 052 Round brush Ø 22 mm with hard filaments
black polyamide filaments
filament-Ø 0.2 mm
filament length 8 mm

41 06 015 Round brush Ø 40 mm with soft filaments
black polyamide filaments
filament-Ø 0.1 mm
filament length 10 mm

41 06 033 Double round brush Ø 50 mm with
soft filaments
black polyamide filaments
filament-Ø 0.1 mm
filament length BL = 20 mm / 10 mm

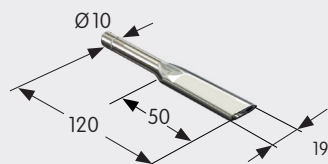
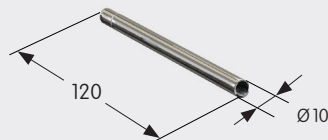
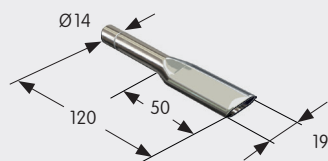
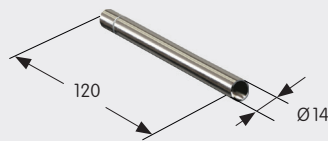
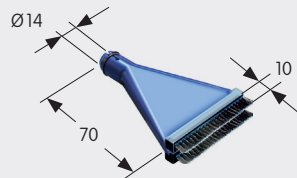
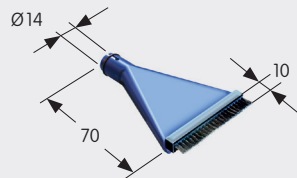
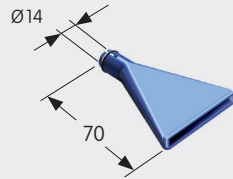
41 06 044 Double round brush Ø 50 mm
black polyamide filaments
filament-Ø 0.15 mm
filament length BL = 30 mm / 10 mm

41 06 053 Round brush Ø 24 mm with soft filaments
filaments pointing outwards
white polyamide filaments
filament-Ø 0.1 mm
filament length 8 mm

41 06 054 Round brush Ø 24 mm with hard filaments
filaments pointing outwards
black polyamide filaments
filament-Ø 0.2 mm
filament length 8 mm

Nozzles

Flat nozzles are suitable for suction mode only.



Order no.

10 26 010 Flat nozzle without filaments
DN 14 mm

10 26 014 Flat brush with one row of hard filaments
DN 14 mm
black polyamide filaments
filament-Ø 0.2 mm
filament length 10 mm

10 26 012 Flat brush
with two rows of soft filaments
DN 14 mm
black polyamide filaments
filament-Ø 0.1 mm
filament length 10 mm

10 04 014 Exchange nozzle with round suction
tube made of nicked brass
DN14 mm
suction tube length 120 mm
for suction nozzle FD 14
and suction gun SP 14

10 04 015 Exchange nozzle with flat suction tube
made of nicked brass
DN 14 mm
suction tube length 120 mm
for suction nozzle FD 14 and
suction gun SP 14

10 03 015 Exchange nozzle with round suction
tube made of stainless steel
DN 10 mm
suction tube length 120 mm
for suction nozzle FD 10

10 03 016 Exchange nozzle with flat suction tube
made of stainless steel
DN 10 mm
suction tube length 120 mm
for suction nozzle FD 10

Set of brushes / nozzles

Flat nozzles and flat brushes are suitable for suction mode only.



Order no.

- | | |
|---------|---|
| 014-004 | Four-part set of brushes/nozzles containing: <ul style="list-style-type: none">- Round brush Ø 40 mm with soft filaments (41 06 015)- Flat nozzle without filaments (10 26 010)- Flat brush with one row of hard filaments (10 26 014)-Flat brush with two rows of soft filaments (10 26 012) |
|---------|---|



- | | |
|---------|--|
| 014-005 | Seven-part set of brushes / nozzles containing: <ul style="list-style-type: none">- Round brush Ø 22 mm with soft filaments (41 06 051)- Round brush Ø 22 mm with hard filaments (41 06 052)- Round brush Ø 40 mm with soft filaments (41 06 015)- Double round brush Ø 50 mm with soft filaments (41 06 033)
- Flat nozzle without filaments (10 26 010)- Flat brush with one row of hard filaments (10 26 014)- Flat brush with two rows of soft filaments (10 26 012) |
|---------|--|

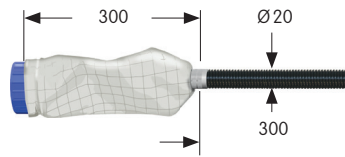
Round brushes are suitable for suction and blowing mode.



- | | |
|---------|---|
| 014-006 | Four-part set of brushes containing: <ul style="list-style-type: none">- Round brush Ø 22 mm with soft filaments (41 06 051)- Round brush Ø 22 mm with hard filaments (41 06 052)- Round brush Ø 40 mm with soft filaments (41 06 015)- Double round brush Ø 50 mm with soft filaments (41 06 033) |
|---------|---|

Filters

For dry, non-toxic particles and short metal shavings

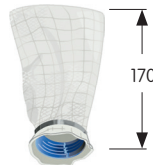


Order no.

11 01 001 Felt filter bag
with screw lid

and 0.3 m off antistatic exhaust air hose
with DN 20 mm

For dry, non-toxic particles and short metal shavings



91 06 038 Felt filter bag
to be screwed onto a 1.5 litre container

For dry, non-toxic particles and short metal shavings



91 06 036 Fine filter for dry dust

- for Suction Gun SP 14 with container and
fine filter housing
- for Vac-Blast Cleaner BS 23 / BSF 23 MB 1.5

For moist particles
e.g. short metal shavings
during thread cutting.



91 06 159 Fine filter for separation of aerosols

- for Suction Guns SP 14 with container and
aerosol filter housing
- for Vac-Blast Cleaner BS 23 / BSF 23 MB
1.5 with aerosol filter housing,
- for Vac-Blast Cleaner BS 23 / BSF 23 MB 2
- for Aerosol Suction Cleaner MS 15 MB 2

Note:
The Aerosol Suction Cleaner MS 15 MB 2
contains three fine filters: for replacements
please order 3 x 91 06 159.



11 01 007 Fine filter with housing
for separation of aerosols

- fine filter with filter housing to be screwed
on top of container for
- Suction Gun SP 14 and
Vac-Blast Cleaner BS 23 / BSF 23 MB 1.5

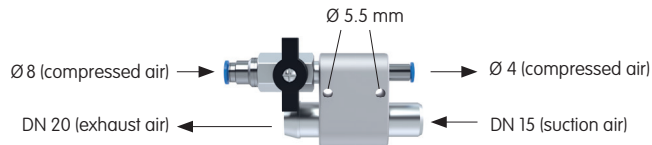


11 01 008 Fine filter with housing
for separation of dry dust

- fine filter with filter housing to be screwed
on top of container for
- Suction Gun SP 14 and
- Vac-Blast Cleaner BS 23 / BSF 23 MB 1.5

Containers / accessories

For Vac-Blast Cleaner BS 23 / BSF 23 MB 1.5

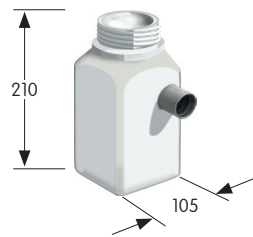


Order no.

100 59 827 Vac-blast nozzle FD 14/1 will ball valve

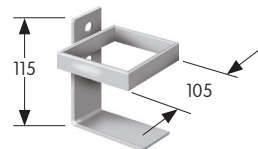
- for particle diameters up to 10 mm with 2 mounting holes $\varnothing 5.5$ mm

For Suction Gun SP14 and
Vac-Blast Cleaner BS 23 / BSF 23 MB 1.5



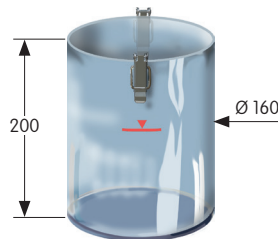
91 50 200 1.5 litre container

- plastic container with capacity 1.5 litres
- at the side, there is a connection for a suction hose $\varnothing 20$ mm
- with screw connection on top to mount either felt filter bag or aerosol filter



12 01 010 Support for 1.5 litre container
with mounting bracket to fasten container
to wall

For Aerosol Suction Cleaner MS15
MB 2 and Vac-Blast Cleaner
BS 23 / BSF 23 MB 2



10033745 2 litre container

- transparent plastic container with capacity 2 litres

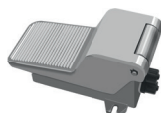
For Suction Gun SP14 MB 30



91 50 302 30 litre container with one hose connection
and two aerosol filters

- plastic container with capacity 30 litres
- screw lid with connection for a exhaust air hose with DN 20 mm and thread for two aerosol filters

For Vac-Blast Cleaner BS 23 / BSF 23
and Aerosol Suction Cleaner MS15 MB 2



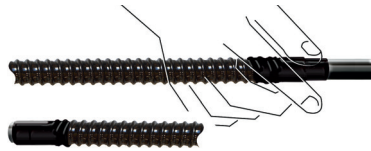
91 02 179 Foot pedal

- to regulate compressed air supply, with connection for compressed air hose with DN 8 mm

Hoses / other spare parts

For Vac-Blast Cleaner BS 23 / BSF 23		Order no. 91 04 314	Compressed air hose with DN 4 mm black pneumatic hose made of polyurethane supplied in metres
For Suction Nozzle FD 14 and FD 10 and Vac-Blast Cleaner BS 23 / BSF 23 and Aerosol Suction Cleaner MS15 MB 2		91 03 043	Compressed air hose with DN 8 mm black pneumatic hose made of polyurethane supplied in metres
For Suction Gun SP14		91 03 021	Compressed air hose with nominal width 10 mm pneumatic hose made of transparent PVC tissue, supplied in metres
For Vac-Blast Cleaner BS 23 / BSF 23 and Aerosol Suction Cleaner MS 15 MB 2		91 03 266	Suction hose with DN 15 mm black spiral coiled hose made of polyurethane, supplied in metres
For Suction Nozzle FD 14 and FD 10 and Suction Gun SP14 and Vac-Blast Cleaner BS 23 / BSF 23 MB 23		91 03 009	Exhaust air hose with DN 20 mm black spiral coiled hose made of polyurethane, supplied in metres 1 – 10 m: 1 metre steps 10 – 30 m: 5 metre steps

For Aerosol Suction Cleaner
MS 15 MB



Order no.

10 36 049 Suction unit

Including:

- 1.6 m off suction hose with DN 15 mm
plug in coupling

For Vac-Blast Cleaner BS 23



100 605 03 Vac-blast unit for BS 23 / MB 1.5

100 597 08 Vac-blast unit for BS 23 / MB 2

Including:

- 1.5 m off suction hose with DN 15 mm and
- 1.5 m off compressed air hose DN 4 mm



For MB 1.5



For MB 2

For Vac-Blast Cleaner BSF 23



100 598 88 Vac-blast unit for BSF 23 / MB 1.5

100 605 22 Vac-blast unit for BSF 23 / MB 2

Including:

- 1.5 m off suction hose with DN 15 mm
and 1.5 m off compressed air hose
with DN 4 mm



For MB 1.5



For MB 2



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