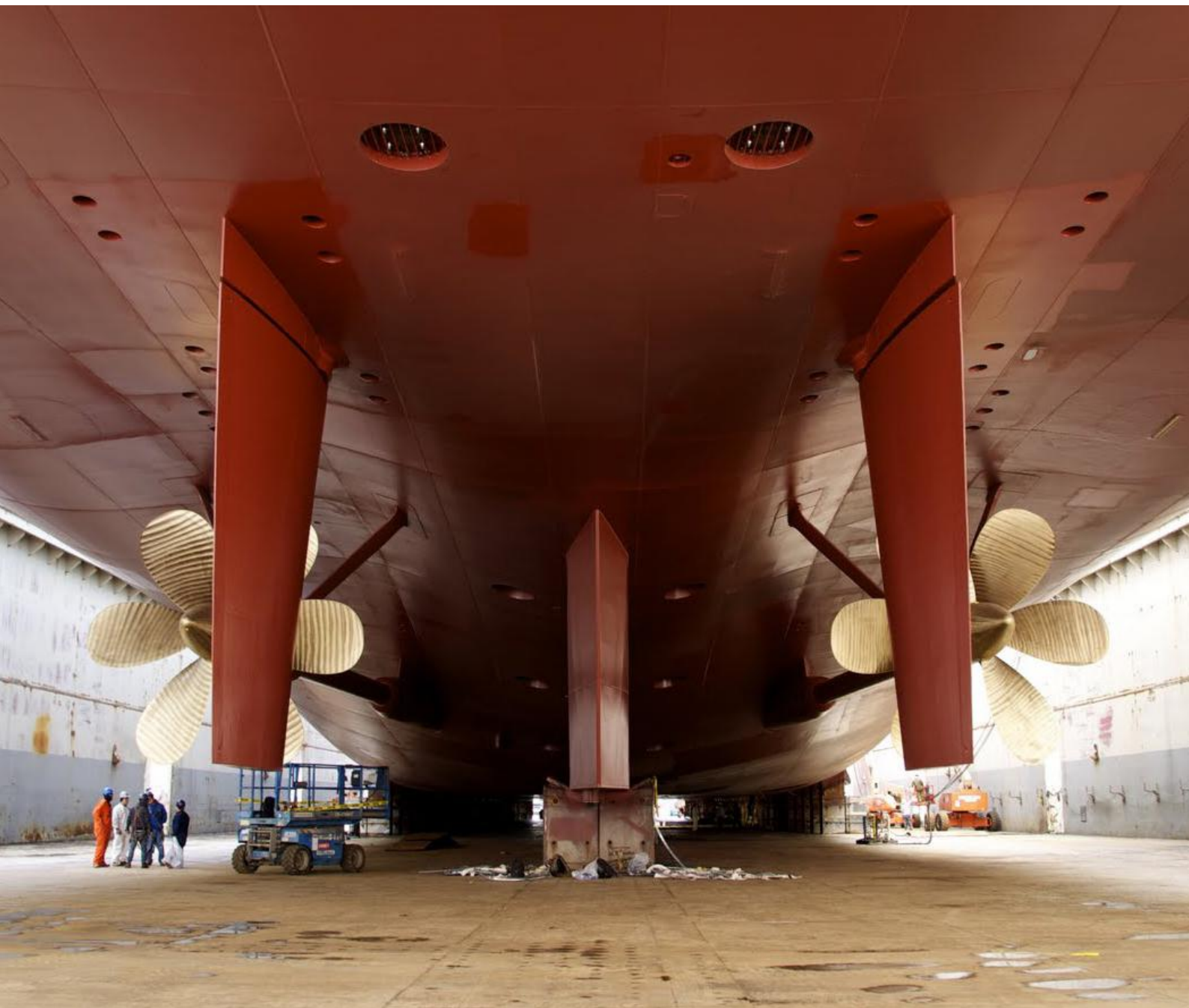


World-leading Surface Preparation and Finishing Solutions

# Product Catalogue



# AIRBLAST EUROSPRAY, AN INTRODUCTION

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Airblast Eurospray is one of the leading global voices in surface preparation and finishing. We design, manufacture, install and sell blast and spray equipment and facilities to some of the world's most important organisations. With roots stretching back to 1971, we're known for driving the market with innovative, technically excellent blast and paint solutions for a wide range of industries.

## WORLD-LEADING BLAST AND SPRAY EXCELLENCE

Our equipment is used in many demanding environments where product integrity is vital – so we only manufacture and sell facilities and equipment that we know are:

- Robust
- Well-designed
- Powerful
- Able to deliver optimum performance – safely and efficiently

## PROFESSIONAL RESULTS

We're proud to offer complete solutions for any blast and spray application with a full range of products and services to help you complete your work to a high professional standard. If you have a bespoke query or cannot locate a specific product our brochures, please contact our sales team who will be happy to help you.

## KNOWLEDGE TRANSFER

Performance is nothing without knowledge - especially with safety-critical processes like blasting. That's why we provide full operator training with industry experts as well as top-up training to keep experienced operators up-to-date with the latest blast and paint technology and developments. Contact our Training Specialists on 01778 560650 to find out more.

## SERVICE AND AFTERCARE

We want you to get the best from your equipment for years to come, so we offer:

- Product and facility servicing
- Service contracts with reduced parts and labour rates
- Equipment collection
- Site visits, inspection and investigation services
- Next day delivery on many products

## EQUIPMENT HIRE

Want to try before you buy? Many of our products are available for hire including blast machines, coating systems, water injection pumps, vacuum transfer units, suction and pressure cabinets, dust arrestors, hand-held closed circuit blast machines, closed circuit blasting and extractor fans. Contact our Hire Team for more information.

Finance packages available to help spread the cost of purchase. Get in touch today.

## AIRBLAST EUROSPRAY

Telephone: 01778 560650

Unit 26 King Street Industrial Estate  
Langtoft  
Peterborough  
PE6 9NF

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World-leading Surface Preparation and Finishing Solutions

# Blast Machines



# AIRBLAST EUROSPRAY BLAST MACHINES (RED)

A range of high production single chamber blast machines, manufactured to suit the requirements of anticorrosion industries. All machines are designed to guarantee fast filling, unrestricted airflow and easy access for inspection and maintenance. High precision abrasive metering valves give accurate delivery of all types of blasting media.

## Features:

- Concave head and conical bottom allows easy filling and easy flow of all types of abrasives.
- Heavy duty pop-up valve to give quick response to pressurisation.
- Lifting eyes for easy mobility.
- Special Designed Hose Connection for easy maintenance.
- All machines mounted on large rugged wheels for easy manoeuvrability on site.
- Working pressure of 12bar.
- A full range of Abrasive Metering Valves are available.
- Standard fitted with:
  - RCV-125 pneumatic operated Remote Control System incl. DMH-125 Deadman Handle and 20 metre twin-line control hose c/w couplings.
  - Highly efficient Clearline Moisture Separator to prevent the entry of moisture and oil from the compressor into the blast pot.
- All machines are CE approved and supplied with full international test certification.



## Specifications

Model	Dimensions (diameter x height mm)	Capacity (ltr)	Weight (kg)
ABSC-18	258 x 781	18	40
ABSC-50	630 x 1150	50	77
ABSC-100	800 x 1150	100	105
ABSC-200	850 x 1450	200	161



# BLAST MACHINES (RED) – FEATURES

**Concave head and conical bottom** allows easy filling and easy flow of all types of abrasives

**Heavy duty pop-up valve** to give quick response to pressurisation

**Lifting eyes** for easy mobility

**Safety valve assembly** for monitoring of pressure

Inspection door quick release for **easy inspection** and servicing

RCV-125 pneumatic operated **Remote Control System** including DMH-125 Deadman Handle and 20m twin-line control hose c/w couplings (also available in electric execution)

**Working pressure of 12bar**

**Highly efficient Clearline Moisture separator** to prevent the entry of moisture and oil from the compressor into the blast pot

Specially designed hose connection for **easy maintenance**

**Mobility** – all machines mounted on large rugged wheels for **easy maintenance** on site

Available with optional **cover and new design screen**

**Abrasive metering valves:**

- Micro valve (standard)
- FSV Flat sand valve
- SGV Steel grit valve
- GVA Steel grit valve
- Thompson valve

All machines are CE approved and supplied with **test certification**

Optional: **Earthing cable**



# AIRBLAST EUROSpray BLAST MACHINES 18LTR

Small but mighty - guaranteed fast filling, unrestricted airflow and easy access for inspection and maintenance. High precision abrasive metering valves give accurate delivery of all types of blasting media.

## Features

- Concave head and conical bottom allows easy filling and easy flow of all types of abrasives.
- Heavy duty pop-up valve to give quick response to pressurisation.
- Lifting eyes for easy mobility.
- Specially designed Hose Connection for easy maintenance.
- All machines mounted on large rugged wheels for easy manoeuvrability on site.
- Working pressure of 12bar.
- A full range of Abrasive Metering Valves are available. Standard fitted with:
  - RCV-125 pneumatic operated Remote Control System incl. DMH-125 Deadman Handle with 10m or 20m twin-line control hose c/w couplings. Highly efficient Clearline Moisture Separator to prevent the entry of moisture and oil from the compressor into the blast pot.
- All machines are CE approved and supplied with full international test certification.



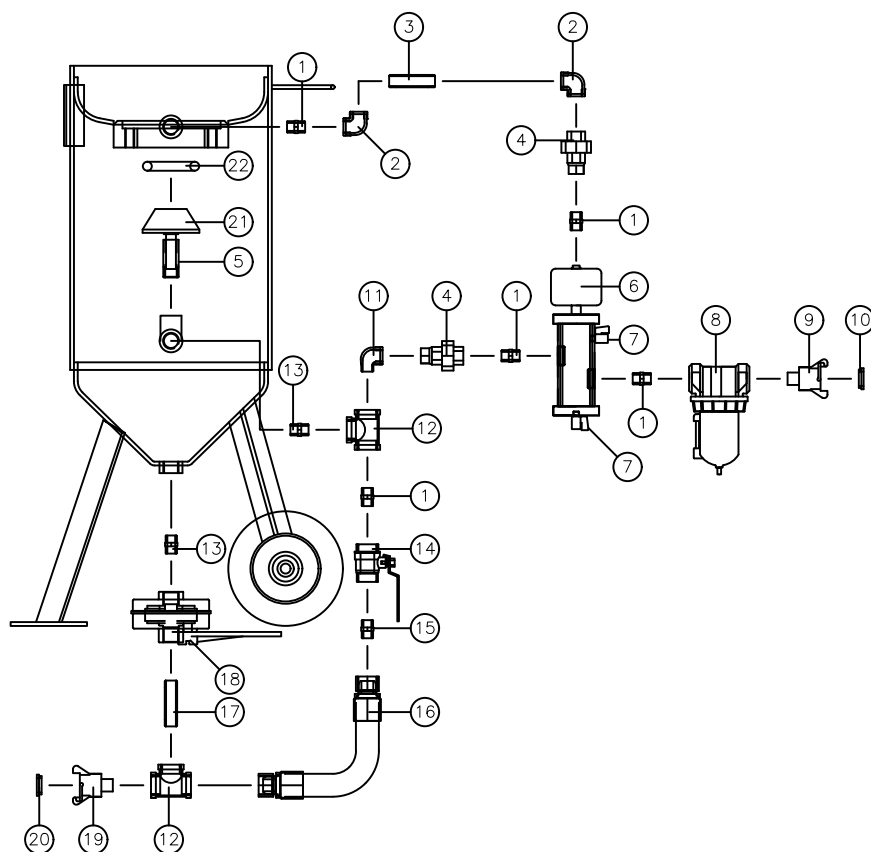
## Specifications

Model	Dimensions (diameter x height in mm)	Capacity (ltr)	Weight (kg)
ABSC-18	258 x 781	18	40
ABSC-50	630 x 1150	50	77
ABSC-100	800 x 1150	100	105
ABSC-200	850 x 1450	200	161

# BLAST MACHINE (RED) 18LTR – DRAWING AND PART LIST

## Blast Machine (red) 18ltr – Parts

Item	Part no.	Description	Item	Part no.	Description
1	ABPOT1015	½" MI nipple	12	ABPOT1023	½" equal tee
2	ABPOT1020	½" MI F/F 90° bend	13	ABPOT10146	½" high pressure nipple
3	On request	½" pipe (long)	14	ABPOT1001	½" ball valve
4	ABPOT1017	½" M-F union	15	On request	½" coned nipple
5	On request	Pop pipe (internal)	16	On request	Pusher hose
6	ABPOTRCV11220	Mini remote control valve	17	On request	½" pipe (short)
7	ABPOT21	¼" ball valve	18	ABPOT1007	AP7 valve
8	ABPOTMT13	½" moisture trap complete	19	ABPOT1009	½" claw coupling
9	ABCOBW3	½" claw coupling	20	ABCOBW7	Coupling gasket
10	ABCOBW7	Coupling gasket	21	ABPOT1002	Pop up valve
11	ABPOT101411	½" MI M/F 90° bend	22	ABPOT1005	Pot sealing ring





# AIRBLAST EUROSpray BLAST MACHINES 50LTR

This tough 50ltr blast pot is designed for fast filling, unrestricted airflow and easy inspection access. High precision abrasive metering valves give accurate delivery of all types of blasting media.

## Features:

- Concave head and conical bottom allows easy filling and easy flow of all types of abrasives.
- Heavy duty pop-up valve to give quick response to pressurisation.
- Lifting eyes for easy mobility.
- Specially designed Hose Connection for easy maintenance.
- All machines mounted on large rugged wheels for easy manoeuvrability on site.
- Working pressure of 12bar.
- A full range of Abrasive Metering Valves are available. Standard fitted with:
  - RCV-125 pneumatic operated Remote Control System incl. DMH-125 Deadman Handle and 10m or 20m twin-line control hose c/w couplings.
  - Highly efficient Clearline Moisture Separator to prevent the entry of moisture and oil from the compressor into the blast pot.
- All machines are CE approved and supplied with full international test certification.



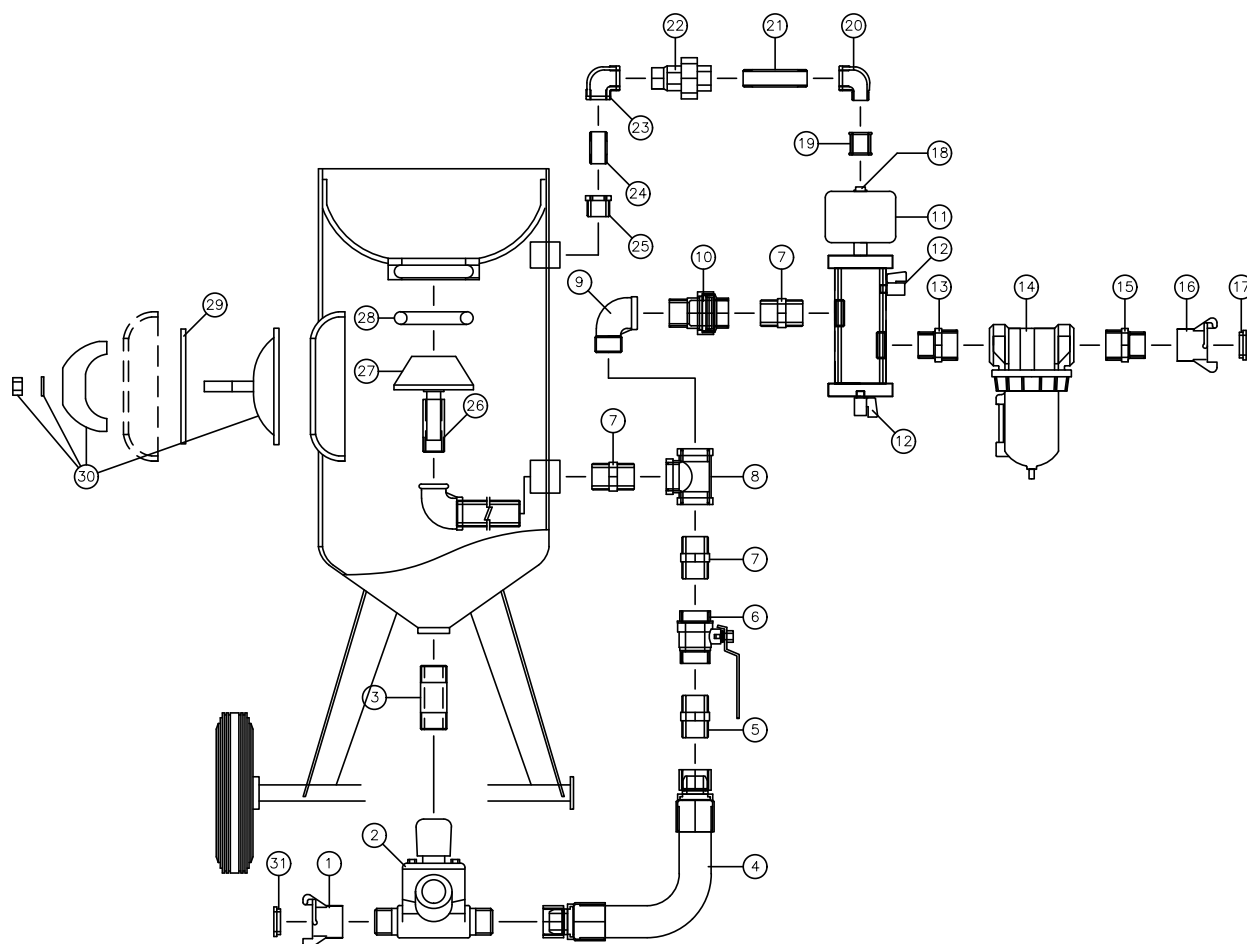
## Technical data

Capacity:	50ltr
Max. system pressure:	12bar
Min. system pressure:	5bar
Max. compressed air temperature:	50°C
Min. compressed air temperature:	5°C
Max. ambient temperature:	50°C
Min. ambient temperature:	5°C
Dimensions (dia. x height):	358 x 1135mm

# BLAST MACHINE (RED) 50LTR – DRAWING AND PART LIST

## Blast Machine (red) 50ltr – Parts

Item	Part no.	Description	Item	Part no.	Description
1	ABPOT9C	1½" quick coupling	17	ABCOBW7	Couple gasket
2	ABPOTMGV	Micro valve	18	ABPOTRCV12073	¾" MI nipple
3	ABPOT8A6	600PSI 1¼" steel nipple	19	ABPOT1065	¾" MI socket
4	On request	Pusher hose	20	ABPOT88	¾" MI M/F 90° bend
5	ABPOT8A	1¼" high pressure nipple	21	On request	¾" pipe (long)
6	ABPOT21	1¼" F/F ball valve	22	ABPOT75	¾" M-F union
7	ABPOTN2	1¼" MI nipple	23	ABPOT1090	¾" MI F/F 90° bend
8	ABPOTO67	1¼" equal tee	24	On request	¾" pipe (short)
9	ABPOT028	1¼" F to 1¼" M 90° bend	25	ABPOT99	1" – ¾" MI bush
10	ABPOT124	1¼" M-F union	26	ABXPIPE3	1" pipe (internal)
11	ABPOTRCV125	Remote control valve	27	ABPOT2	Pop up valve
12	ABPOT21	1¼" ball valve	28	ABPOT5	Pot sealing ring
13	ABPOT63	1¼" to 1½" nipple	29	ABPOTNC11	Door hatch gasket
14	ABPOTMT38	1½" moisture trap complete	30	On request	Door (complete)
15	ABPOT90	1½" to 1" M/F bush	31	ABCOCG1	1½" coupling gasket
16	ABCOBW10	1" claw coupling			



# AIRBLAST EUROSpray BLAST MACHINES 100LTR

All our Redline blast pots are designed to guarantee fast filling, unrestricted airflow and easy access for inspection and maintenance. High precision abrasive metering valves give accurate delivery of all types of blasting media.

## Features:

- Concave head and conical bottom allows easy filling and easy flow of all types of abrasives.
- Heavy duty pop-up valve to give quick response to pressurisation.
- Lifting eyes for easy mobility.
- Specially designed Hose Connection for easy maintenance.
- Mobility – all machines mounted on large rugged wheels for easy manoeuvrability on site.
- Working pressure of 12bar.
- A full range of Abrasive Metering Valves are available. Standard fitted with:
  - RCV-125 pneumatic operated Remote Control System incl. DMH-125 Deadman Handle and 10m or 20m twin-line control hose c/w couplings. Highly efficient Clearline Moisture Separator to prevent the entry of moisture and oil from the compressor into the blast pot.
- All machines are CE approved and supplied with full international test certification.

## Technical data

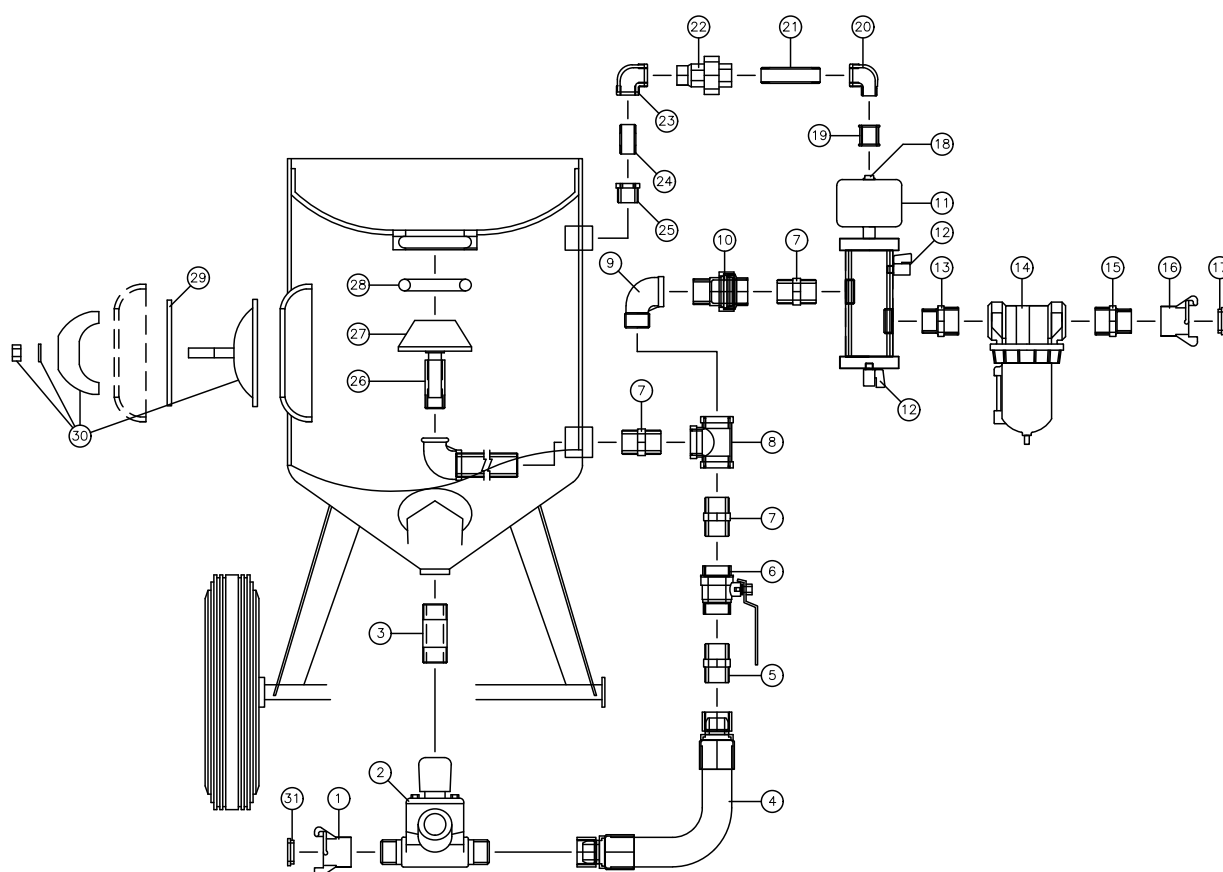
Capacity:	100ltr
Max. system pressure:	12bar
Min. system pressure:	5bar
Max. compressed air temperature:	50°C
Min. compressed air temperature:	5°C
Max. ambient temperature:	50°C
Min. ambient temperature:	5°C
Dimensions (dia. x height):	508 x 1145mm
Weight (bare and empty):	105kg



# BLAST MACHINE (RED) 100LTR – DRAWING AND PART LIST

## Blast Machine (red) 200ltr – Parts

Item	Part no.	Description	Item	Part no.	Description
1	ABPOT9C	1½" quick coupling	17	ABCOBW7	Couple gasket
2	ABPOTMGV	Micro valve	18	ABPOTRCV12073	¾" MI nipple
3	ABPOT8A6	600PSI 1¼" steel nipple	19	ABPOT1065	¾" MI socket
4	On request	Pusher hose	20	ABPOT88	¾" MI M/F 90° bend
5	ABPOT8A	1¼" high pressure nipple	21	On request	¾" pipe (long)
6	ABPOT21	1¼" F/F ball valve	22	ABPOT75	¾" M-F union
7	ABPOTN2	1¼" MI nipple	23	ABPOT1090	¾" MI F/F 90° bend
8	ABPOTO67	1¼" equal tee	24	On request	¾" pipe (short)
9	ABPOT028	1¼" F to 1¼" M 90° bend	25	ABPOT99	1" – ¾" MI bush
10	ABPOT124	1¼" M-F union	26	ABXPIPE3	1" pipe (internal)
11	ABPOTRCV125	Remote control valve	27	ABPOT2	Pop up valve
12	ABPOT21	1¼" ball valve	28	ABPOT5	Pot sealing ring
13	ABPOT63	1¼" to 1½" nipple	29	ABPOTNC11	Door hatch gasket
14	ABPOTMT38	1½" moisture trap complete	30	On request	Door (complete)
15	ABPOT90	1½" to 1" M/F bush	31	ABCOCG1	1½" coupling gasket
16	ABCOBW10	1" claw coupling			



## AIRBLAST EUROSpray BLAST MACHINES 200LTR

A robust blast machine designed to guarantee fast filling, unrestricted airflow and easy access for inspection and maintenance. High precision abrasive metering valves give accurate delivery of all types of blasting media.

### Features:

- Concave head and conical bottom allows easy filling and easy flow of all types of abrasives.
- Heavy duty pop-up valve to give quick response to pressurisation.
- Lifting eyes for easy mobility.
- Specially designed Hose Connection for easy maintenance.
- All machines mounted on large rugged wheels for easy manoeuvrability on site.
- Working pressure of 12bar.
- A full range of Abrasive Metering Valves are available. Standard fitted with:
  - RCV-125 pneumatic operated Remote Control System incl. DMH-125 Deadman Handle and 10m or 20m twin-line control hose c/w couplings.
  - Highly efficient Clearline Moisture Separator to prevent the entry of moisture and oil from the compressor into the blast pot.
- All machines are CE approved and supplied with full international test certification.

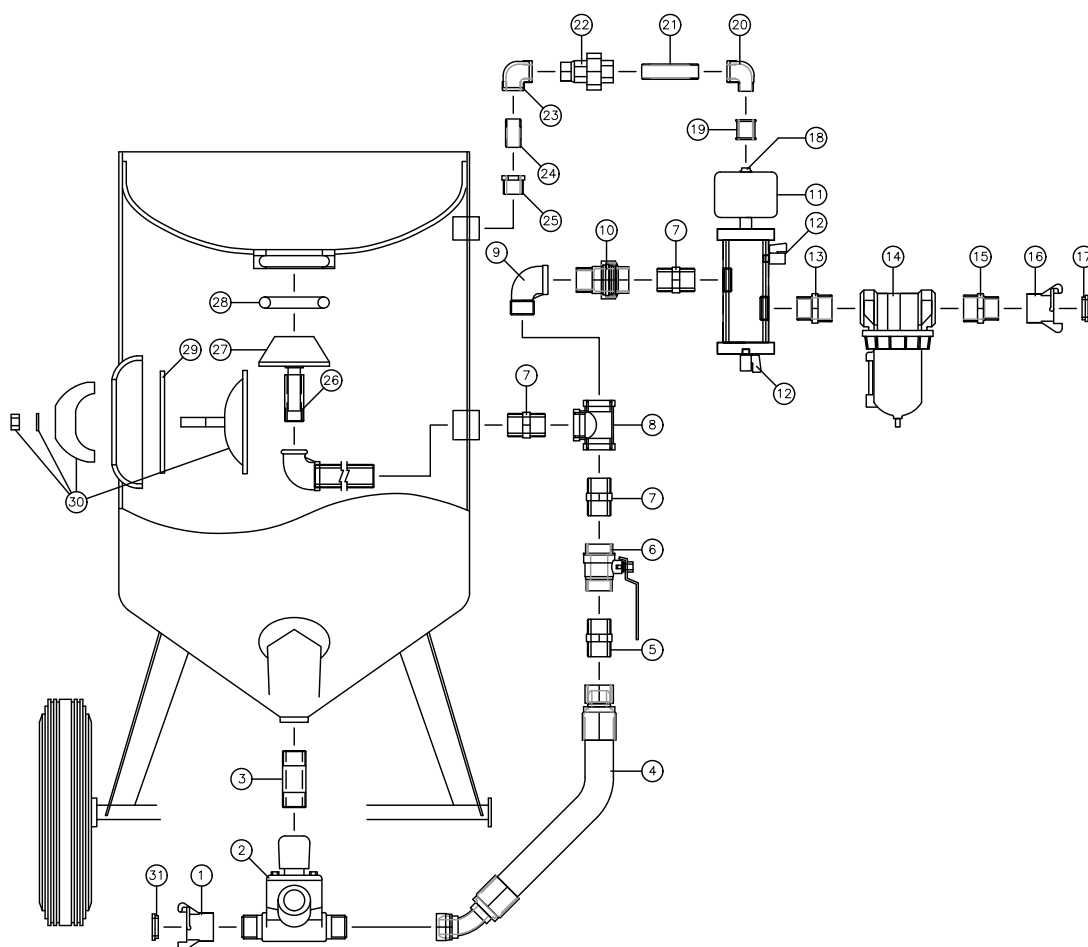
### Technical data

Capacity:	200ltr
Max. system pressure:	12bar
Min. system pressure:	5bar
Max. compressed air temperature:	50°C
Min. compressed air temperature:	5°C
Max. ambient temperature:	50°C
Min. ambient temperature:	5°C
Dimensions (dia. x height):	615 x 1423mm
Weight (bare and empty):	161kg



# BLAST MACHINE (RED) 200LTR – DRAWING AND PART LIST

Blast Machine (red) 200ltr – Parts					
Item	Part no.	Description	Item	Part no.	Description
1	ABPOT9C	1½" quick coupling	17	ABCOBW7	Couple gasket
2	ABPOTMGV	Micro valve	18	ABPOTRCV12073	¾" MI nipple
3	ABPOT8A6	600PSI 1¼" steel nipple	19	ABPOT1065	¾" MI socket
4	On request	Pusher hose	20	ABPOT88	¾" MI M/F 90° bend
5	ABPOT8A	1¼" high pressure nipple	21	On request	¾" pipe (long)
6	ABPOT21	1¼" F/F ball valve	22	ABPOT75	¾" M-F union
7	ABPOTN2	1¼" MI nipple	23	ABPOT1090	¾" MI F/F 90° bend
8	ABPOTO67	1¼" equal tee	24	On request	¾" pipe (short)
9	ABPOT028	1¼" F to 1¼" M 90° bend	25	ABPOT99	1" – ¾" MI bush
10	ABPOT124	1¼" M-F union	26	ABXPIPE3	1" pipe (internal)
11	ABPOTRCV125	Remote control valve	27	ABPOT2	Pop up valve
12	ABPOT21	1¼" ball valve	28	ABPOT5	Pot sealing ring
13	ABPOT63	1¼" to 1½" nipple	29	ABPOTNC11	Door hatch gasket
14	ABPOTMT38	1½" moisture trap complete	30	On request	Door (complete)
15	ABPOT90	1½" to 1" M/F bush	31	ABCOCG1	1½" coupling gasket
16	ABCOBW10	1" claw coupling			





# AIRBLAST EUROSPRAY MINI BLASTERS

There is always a need for blasting small areas in a simple way. A unique solution to this is the Airblast Eurospray Mini Blaster. The AMB is economical and has been taken into daily use by professional blasting companies, shipping companies and offshore industries worldwide.

The AMB has the following advantages:

- Low air consumption - no need for a large and expensive air compressor.
- An air pressure regulator to help blast all surfaces: steel, aluminium, wood, plastic, glass, etc.
- Aluminium construction - lightweight and robust.

The AMB can easily be operated by one person, and can be filled with abrasive without the use of tools. Blasting is simple due to the abrasive flow regulator and deadman switch mounted at the nozzle. The AMB is CE-approved and is made in accordance with safety regulations.



## Removal of corrosion – cleaning of metal

The AMB removes corrosion and cleans metal in a rapid, easy and professional way. The unit is especially useful for cleaning of welding seams, removal of slag and old paints.

### Technical specifications

	AMB-13	AMB-28
Air pressure	2–7bar	2–7bar
Air requirement	see table below	see table below
Hose ID	3/8"	1/2"
Hose lengths	3m	6m
Tank capacity	13ltr	28ltr
Nozzle size	3.0mm	4.5mm
Weight (empty)	12kg	29kg

### Air consumption nozzles Airblast Eurospray Mini Blaster (l/min @ 20°C)

Pressure (bar)	4	5	6	7	8
Nozzle (mm)					
2.5	255	281	305	327	348
3	368	406	440	472	502
3.5	502	553	600	644	684
4	657	725	786	843	896
4.5	835	920	998	1070	1137
5	1036	1141	1237	1326	1409
5.5	1262	1390	1506	1614	1714
6	1516	1669	1807	1936	2055
6.5	1803	1982	2145	2296	2437

The air consumption figures above are based on maximum theoretic airflow possible. To achieve these numbers you will have to use an air compressor that is capable of releasing these values and also include extra 15% that often is lost from the air compressor to the blast nozzle. We recommend a minimum air supply hose of 1/2" or preferable 3/4".

# RCV-125 REMOTE CONTROL SYSTEM

The RCV-125 pressure-release pneumatic system operates on the return-air principle. A handle installed at the nozzle connects pneumatically to inlet and outlet valves on the blast machine. With the safety petcock on the inlet valve closed, the operator depresses the handle which opens the inlet valve and closes the outlet to start blasting; releasing the handle reverses the process and blasting stops. This safety system stops blasting should the operator lose control of the nozzle. And when the blast session is over, the safety petcock is opened to prevent activation, even when the handle is depressed.

For applications that require frequent starts and stops, machines should be equipped with pressure-hold pneumatic remote controls, which keep the blast machine under pressure but allow the operator to start and stop blasting as frequently as needed. The machine is pressurised and depressurised manually, and the remote control handle controls the on/off of the abrasive and air independently. These systems are available in pneumatic and electric models.



Part no.	Description
AB1200000	RCV-125/20 1¼" Remote Control Valve complete including: Silencer/Muffler
AB1201000	RCV-125/40 1¼" Remote Control Valve complete including: Silencer/Muffler
AB1202000	RCV-125/B Remote Control Valve only (Silencer included)
AB1203000	DMH-125 Deadman Handle for twin line remote control operation

Twin Line Hose Assemblies	
Part no.	Description
AB1144400	Twin hose coupled, length of 10m and 20m

## POTRCV125

– Remote Control Valve RCV125

## POTDMH12030A

– Deadman Handle

## POTDMH22RG

– Deadman Handle (Flipover version)

### Remote Control Valve

- Works on the return air principle
- Keeps operator safe and ensures efficient use of media
- Full range of spares available

### Deadman Handle

- Available in both push down and flipover style
- Essential for keeping the blast pot safe
- Allows the operator to start and stop blasting as frequently as needed
- Stops blasting should the operator lose control of the nozzle

### Deadman Lines

- Colour coded red and yellow ¼"

### Available in 10 and 20m

- Comes with fittings to connect straight onto deadman handle and control valve

### Pressure hold option

- Fit to existing pots. Please call the sales team to discuss pricing options

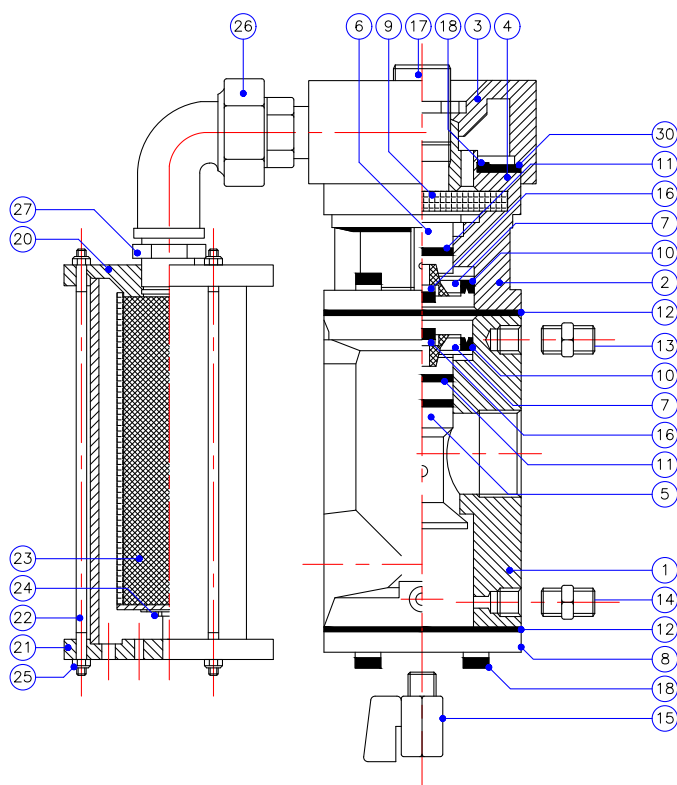


# RCV-125 REMOTE CONTROL SYSTEM

## RCV-125 Remote Control Valve – Parts list

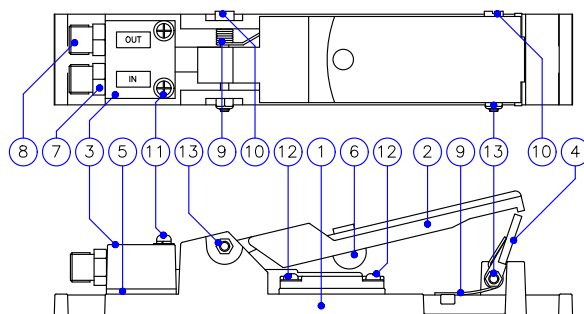
Item	Part no.	Description	Qty
01	AB1206000	Valve housing	1
02	AB1206100	Bleed-off cylinder housing	1
03	AB1206200	Bleed-off manifold	1
04	AB1206300	Top cover	1
05	AB1206400	Inlet valve	1
06	AB1206500	Bleed-off cylinder	1
07	AB1206600	Piston	2
08	AB1206700	Bottom plate	1
09	AB1206800	Diaphragm*	1
10	AB1206900	Piston seal*	2
11	AB1207000	O-ring*	3
12	AB1207100	Packing*	2
13	AB1178000	Brass hex nipple 1/4"	1
14	AB1178000	Brass hex nipple 1/4"	1
15	AB1152000	Ball valve 1/4"	2
16	AB1207200	Piston screw 8 x 15	2
17	AB2225400	Hex nipple 3/4"	1
18	AB1207400	Screw 8 x 25	12
19	AB1207600	Silencer housing	1
20	AB1207700	Silencer top cover	1
21	AB1207800	Silencer bottom plate	1
22	AB1207900	Silencer housing pin 5 x 215	3
23	AB1208000	Silencer cartridge	1
24	AB1208100	Silencer cartridge support	1
25	AB1208600	Nut	6
26	AB1208400	Union elbow	1
27	AB2225400	Hex nipple 3/4"	1
28	AB1208700	Check valve (not shown)	1
29	AB1207500	Plug 1/4" (not shown)	1
30	AB1209600	O-ring*	

\*Items are included in RCV-125 Repair kit (art.nr. AB12050) in quantities shown



## DMH-125 Deadman Handle – Parts list

Item	Part no.	Description	Qty
01	AB1203100	Handle body	1
02	AB1203200	Lever	1
03	AB1203300	Pneumatic manifold	1
04	AB1203400	Lever safety lock	1
05	AB1203500	Gasket	1
06	AB1203600	Rubber insert	1
07	AB1203700	Reduction nipple 1/4" x 1/8" (restricted)	1
08	AB1203800	Reduction nipple 1/4" x 1/8"	1
09	AB1203900	Spring	2
10	AB1204000	Screw 5x40	2
11	AB1204100	Screw 4x25	2
12	AB1204200	Screw 4x10	4
13	AB1204300	Lock nut	2



# RCV-50 REMOTE CONTROL SYSTEM

The RCV-50 pressure-release pneumatic system operates on the return-air principle. A handle installed at the nozzle connects pneumatically to inlet and outlet valves on the blast machine. With the safety petcock on the inlet valve closed, the operator depresses the handle which opens the inlet valve and closes the outlet to start blasting; releasing the handle reverses the process and blasting stops. This safety system stops blasting should the operator lose control of the nozzle. When the blast session is over, the safety petcock is opened to prevent activation, even when the handle is depressed.

For applications that require frequent starts and stops, machines should be equipped with pressure-hold pneumatic remote controls, which keep the blast machine under pressure but allow the operator to start and stop blasting as frequently as needed. The machine is pressurised and depressurised manually, and the remote control handle controls the on/off of the abrasive and air independently. These systems are available in pneumatic and electric models.



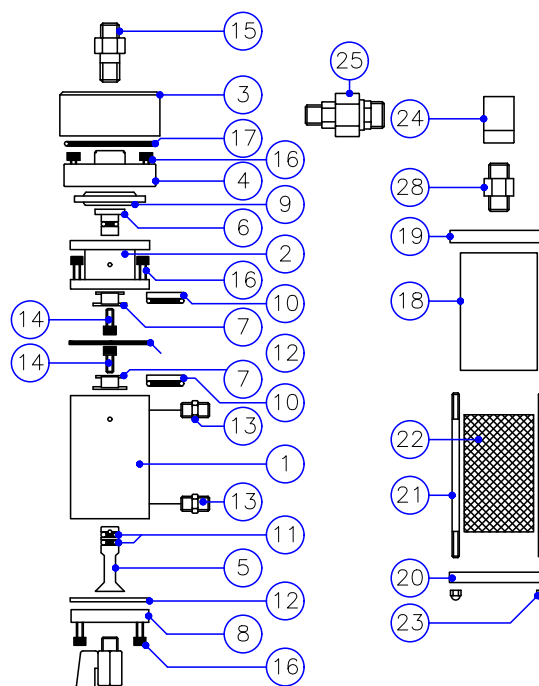
Part no.	Description
AB1122000	RCV-50 Remote Control Valve ½", complete
AB1122001	RCV-50/B Remote Control Valve ½", bare (excluding Silencer)
AB1122202	Silencer assembly
AB1203000	DMH-125 Deadman Handle for twin line remote control operation (for parts see data sheet RCV-125)

RCV-50 Remote Control Valve – Parts list			
Item	Part no.	Description	Qty
01	AB1122010	Valve housing	1
02	AB1122020	Bleed-off cylinder	1
03	AB1122030	Bleed-off manifold	1
04	AB1122040	Top cover	1
05	AB1122050	Inlet valve	1
06	AB1122060	Bleed-off cylinder	1
07	AB1122070	Piston	2
08	AB1122080	Bottom plate	1
09	AB1122090	Diaphragm*	1
10	AB1122100	Piston seal*	2
11	AB1122110	O-ring*	3
12	AB1122120	Packing*	2
13	AB1178000	Brass hex nipple ¼"	1
14	AB1122130	Piston screw M6 x 15	1
15	AB1122140	Nipple ½" BSP (M) x ¾" BSP (M)	2
16	AB1122150	Cap screw M6 x 20	2
17	AB1122160	O-ring*	1
18	AB1122170	Silencer housing	12
19	AB1122180	Silencer top plate	1
20	AB1122190	Silencer bottom plate	1
21	AB1122200	Silencer housing pin 5 x 215	1
22	AB1122210	Silencer cartridge	3
23	AB1122220	Lock nut	1
24	AB1122230	Union elbow	1
25	AB1122240	Union	1
26	AB1122250	Nipple ⅜" BSP (M) x ⅜" BSP (M)	1
27	AB1152000	Plug ¼" (not shown)	1
28	AB1152000	Ball valve ¼"	1

\*Items are included in RCV-50 Repair kit (art.nr.AB1122203) in the quantities shown.

### Pressure hold option

Fit to existing systems, please call sales team for a price.



# CLEARLINE WATER FILTER/MOISTURE SEPERATOR

Airblast Eurospray blasting machines feature a highly efficient Clearline Moisture Separator.

The moisture separator prevents moisture and oil from the compressor entering the blast machine.

Often this is especially necessary when using old compressors, working at low temperatures or at a large distance from the compressor.

The Clearline Moisture Separator eliminates up to 98% of the condensate and oil from compressed air. This prevents the abrasive becoming damp and clogging the machine.

Available in the sizes 1/2" and 1 1/2".



## Clearline Water Filter/Moisture Seperator

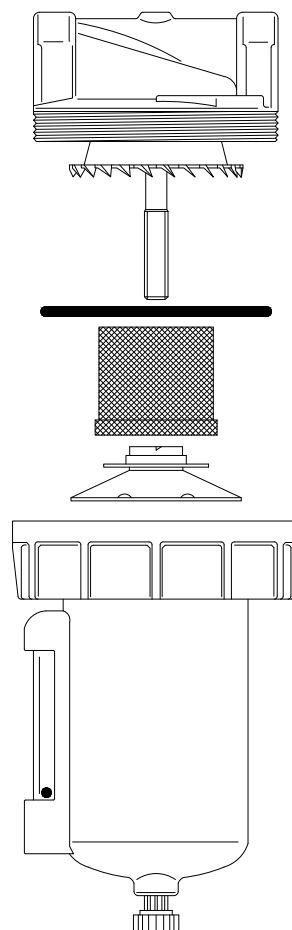
Part no.	Description
AB4056001	Clearline 1/2" for use with 1028 blast machine with 1/2" piping
AB4057000	Clearline 1 1/2" with manual drain for use with blast machines with 1 1/4" piping
AB4058000	Clearline 1 1/2" Automatic with automatic drain for use with blast machines with 1 1/4" piping

## Spare parts Clearline 1 1/2"

Part no.	Description
AB4057600	Bowl kit and sight glass, includes:
	- Bowl
	- Sight glass assembly
	- O-ring
	- Manual drain assembly
AB4058100	Automatic drain option
AB4057300	40 micron filter

## Spare parts Clearline 1/2"

Part no.	Description
AB4056002	Meta bowl, sight glass and manual drain
AB4056003	Particle filter element



# AP-7 ABRASIVE CONTROL VALVE

The Airblast Eurospray AP-7 Abrasive Control Valve 1/2" is used to provide precise metering of abrasive from the blast pot to the blast hose.

One fixed, and one movable stainless steel metering plate provide long life and a high degree of metering adjustment, ensuring maximum productivity without abrasive wastage.

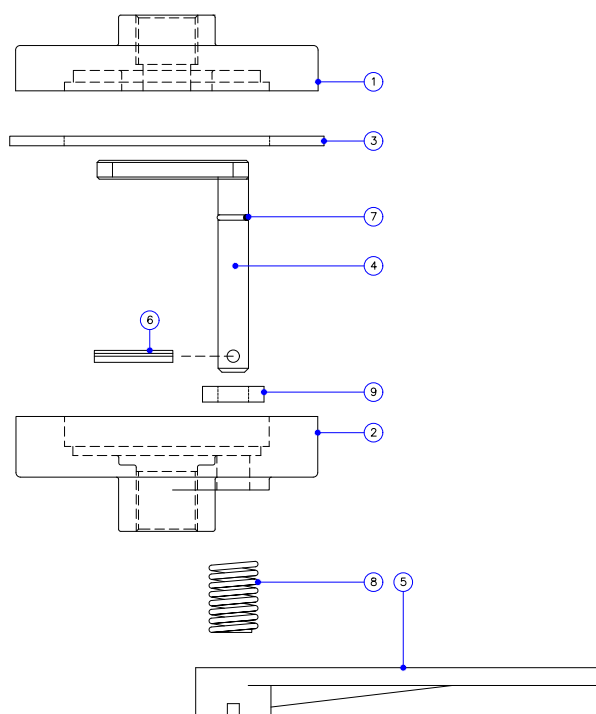
The AP-7 Abrasive Control Valve is best suited to blasting applications using expendable type abrasives, such as crushed glass and copper slag.

Airblast Eurospray offers a full selection of metering valves. Contact us to discuss which metering valve is most suitable for your specific application.



Part no.	Description
AB6026000	AP-7 Abrasive Control Valve 1/2"

AP-7 Abrasive Control Valve – Parts list			
Item	Part no.	Description	Qty
01	AB6027000	Top casting	1
02	AB6028000	Bottom casting	1
03	AB6029000	Valve body gasket	1
04	AB6030000	Metering plate and stem	1
05	AB6031000	Handle	1
06	AB6032000	Spring pin	1
07	AB6033000	O-ring	1
08	AB6034000	Spring	1
09	AB6035000	Washer	1





# FLAT SAND VALVE

The Airblast Eurospray Flat Sand Valve is used to provide metering of abrasive from the blast pot to the blast hose. With its unique 45° design, the FSV Flat Sand Valve permits a smooth, natural flow of abrasives into the blasting air stream.

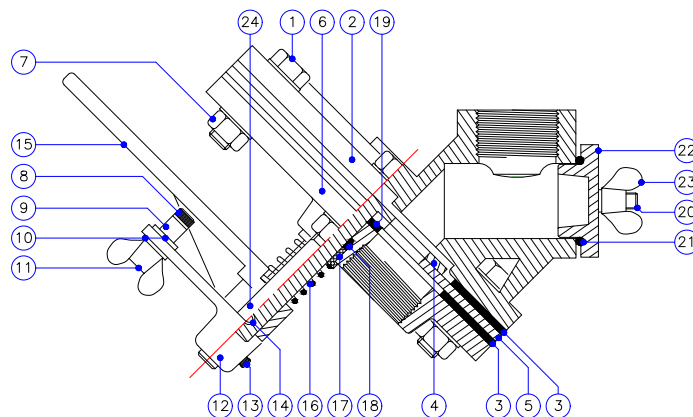
The FSV Flat Sand Valve is best suited to blasting applications using expendable type abrasives, such as crushed glass and copper slag.

Airblast Eurospray offers a full selection of metering valves. Contact us to discuss which metering valve is most suitable for your specific application.



Part no.	Description
6001000	FSV Flat Sand Valve 1 1/4"

FSV Flat Sand Valve – Parts list			
Item	Part no.	Description	Qty
01	AB6002000	Bolt M12 x 45mm	4
02	AB6003000	Upper body	1
03	AB6004000	Rubber gasket	2
04	AB6005000	Valve	1
05	AB6006000	Disc	1
06	AB6007000	Lower body	1
07	AB6008000	Nut M12	8
08	AB6009000	Head cap screw M6 x 25mm	1
09	AB6010000	Handle bolt spacer	1
10	AB6011000	Washer 6 mm	2
11	AB6012000	Wing nut M6	1
12	AB6013000	Gauge unit	1
13	AB6014000	Set screw M6	2
14	AB6015000	Handle pin	1
15	AB6016000	Control handle	1
16	AB6017000	Compressing spring	1
17	AB6018000	Packing gland	1
18	AB6019000	Packing	1
19	AB6020000	Gasket	1
20	AB6021000	Inspection plate bolt M8 x 35mm	2
21	AB6022000	O-ring	1
22	AB6023000	Inspection plate	1
23	AB6024000	Wing nut M8	2
24	AB6025000	FSV bolt	2



# SGV STEEL GRIT VALVE

The Airblast Eurospray SGV Steel Grit Valve is used to provide metering of abrasive into the compressed air flow at the outlet of a blast machine.

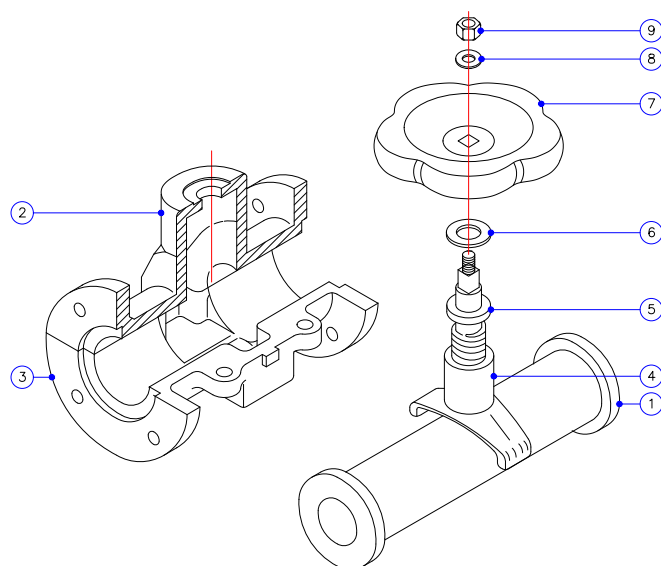
The SGV Steel Grit Valve is suitable for metering heavy or aggressive abrasive materials, such as steel shot and grit, chilled iron grit or aluminium oxide. The SGV Steel Grit Valve design prevents the valve body from coming into contact with the abrasive stream. The abrasive stream only touches the rubber liner, which may be quickly replaced when worn. The abrasive is metered by means of closing the rubber pipe by a metering screw.

Airblast Eurospray offers a full selection of metering valves. Contact us to discuss which metering valve is most suitable for your specific application.



Part no.	Description
AB6062000	SGV Steel Grit Valve 1"

SGV Steel Grit Valve – Parts list			
Item	Part no.	Description	Qty
01	AB6062100	Rubber sleeve 1" ID	1
02	AB6062200	Upper body	1
03	AB6062300	Lower body	1
04	AB6062400	Plug	1
05	AB6062500	Control system	1
06	AB6062600	Washer	1
07	AB6062700	Control handle	1
08	AB6062800	Washer	1
09	AB6062900	Nut	1
	AB6063000	Flange (not shown)	2



# GVA ABRASIVE MEMBRANE VALVE

The Airblast Eurospray GVA Abrasive Membrane Valve is used to provide precise metering of abrasive into the compressed air flow at the outlet of a blast machine.

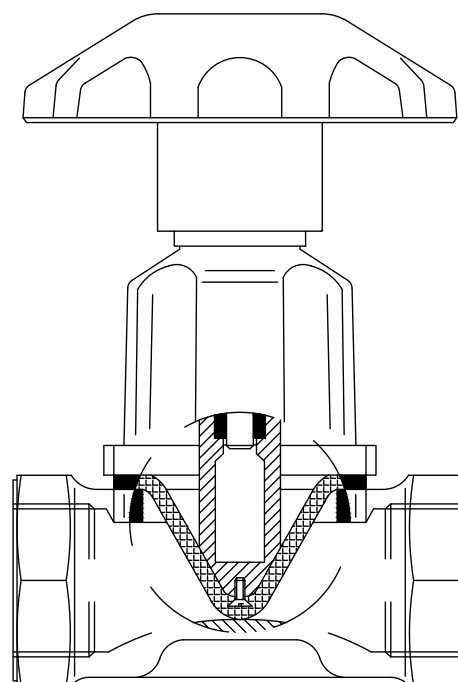
The GVA Abrasive Membrane Valve design prevents the valve top body from coming into contact with the abrasive stream. The abrasive stream only touches the valve bottom and the membrane, which may be quickly replaced when worn. The abrasive is metered by means of closing the membrane by a metering screw.

Airblast Eurospray offers a full selection of metering valves. Contact us to discuss which metering valve is most suitable for your specific application.



Part no.	Description
AB6070000	GVA 12 - Abrasive Membrane Valve ½"
AB6070500	GVA 25 - Abrasive Membrane Valve 1"
AB6071000	GVA 32 - Abrasive Membrane Valve 1¼"
AB6071500	GVA 38 - Abrasive Membrane Valve 1½"

GVA Abrasive Membrane Valves – Parts list	
Part no.	Description
AB6071100	Membrane for GVA-25, GVA-32 and GVA-38
AB6071200	Membrane for GVA-12



# AMV – AIRBLAST EUROSPRAY MICRO VALVE

The AMV Airblast Eurospray Micro Valve offers one of the highest degrees of abrasive metering adjustment. This permits precise, constant abrasive flow to the blast nozzle, resulting in significant cost savings due to virtually no abrasive wastage.

Suitable for use with all types of abrasives such as garnet, fine mesh aluminum oxide, as well as steel shot and grit, the AMV uses considerably less abrasive when compared with other valves - combined with maximum blasting productivity and reduced downtime.

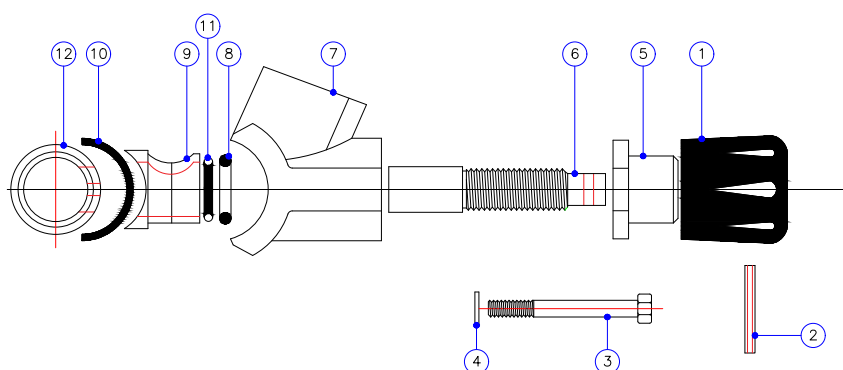
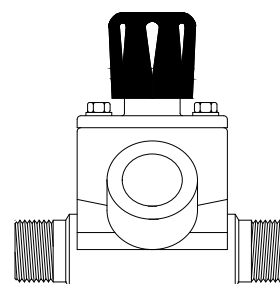
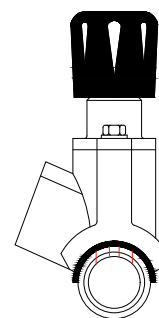
### Features:

- Low profile design.
- Rugged non-corrosive body.
- Urethane sleeve protects valve core.
- Case hardened nipples provide superior wear resistance.
- Easy to maintain, fewer replacement parts.
- Infinite metering capabilities.
- Hardened steel plunger for long operating life.
- Complete range of replacement parts available.



Part no.	Description
6080000	Microvalve 1¼" with urethane sleeve

AMV Abrasive Metering Valve – Parts list			
Item	Part no.	Description	Qty
01	AB6081000	Control knob	1
02	AB6081500	Spring pin*	1
03	AB6082000	Bolt*	2
04	AB6082100	Flat washer*	2
05	AB6082500	Top body	1
06	AB6083000	Plunger	1
07	AB6083500	Valve body	1
08	AB6084000	Plunger seal*	1
09	AB6084500	Urethane sleeve*	1
10	AB6085000	Gasket*	2
11	AB6085100	O-ring*	2
12	AB6086600	Pipe nipple 1¼" M x 1¼" M	1
	AB6087000	Repair kit (consists of *marked items)	



# THOMPSON VALVE

The original Thompson Valve is a normally closed, self sealing, abrasive metering valve known for its instant, smooth response to either pneumatic or electric deadman controls. This fail-safe valve shuts off abrasive flow to the nozzle and seals the tank at the same instant. A remote abrasive cut-off is available, allowing the operator to stop the flow of media while continuing a constant flow of air. This provides a quick and easy way to clear the blast hose and blasting area of abrasive.

Designed for superior operator safety, the Thompson Valve is ideal for multiple outlet use and is easily adaptable to most existing blasting systems. It is engineered to allow precise metering of all types of abrasive media and can be modified for special applications.

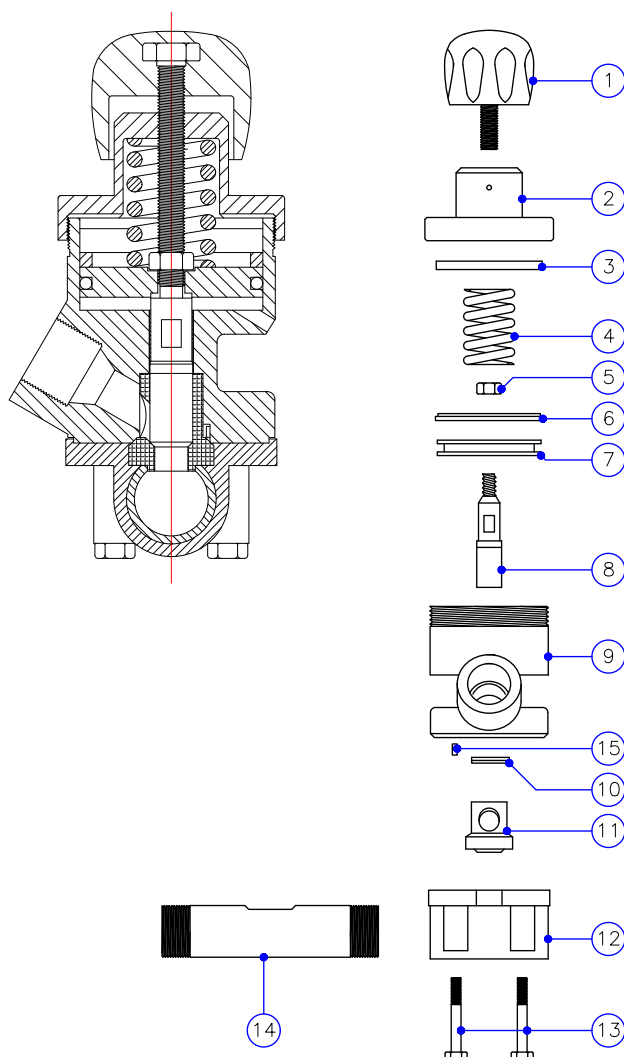
## Features

- Control knob precisely controls abrasive flow.
- Standard urethane sleeve for normal operation, or optional tungsten carbide sleeve for extended life.
- Design minimises air turbulence in mixing chamber, providing even media flow.
- A short path helps ensure constant abrasive media flow.
- Orifice is sized for precise metering of abrasive.
- Rugged, non-corrosive body.



Part no.	Description
AB6088000	Thompson Valve 1" with Tungsten Carbide sleeve
AB6088500	Thompson Valve 1" with Urethane sleeve
AB6089000	Thompson Valve 1¼" with Tungsten Carbide sleeve
AB6089500	Thompson Valve 1¼" with Urethane sleeve
AB6090000	Thompson Valve 1½" with Tungsten Carbide sleeve
AB6090500	Thompson Valve 1½" with Urethane sleeve

Abrasive Metering Valve – Parts list					
Item	Part no.	Description	TC	U	Qty
01	AB6091000	Control knob			1
02	AB6091100	Cap			1
03	AB6091200	Bump ring			1
04	AB6091300	Spring			2
05	AB6091400	Nut			1
06	AB6091500	Piston seal	*	**	1
07	AB6091600	Piston			1
08	AB6091700	Tungsten Carbide plunger	*	**	1
09	AB6091800	Cylinder			1
10	AB6091900	Plunger seal	*	**	1
11a	AB6092900	Tungsten Carbide sleeve	*		1
11b	AB6092000	Urethane sleeve		**	1
12	AB6092100	Base			1
13	AB6092200	Bolt			2
14a	AB6092300	Pipe nipple 1" M x 1" M			1
14b	AB6092400	Pipe nipple 1¼" M x 1¼" M			1
14c	AB6092500	Pipe nipple 1½" M x 1½" M			1
15	AB6099250	Sleeve pin			1
	AB6093000	Repair kit for TC sleeve, consists of *marked items			
	AB6093100	Repair kit for U sleeve, consists of **marked items			



## THOMPSON VALVE II

The Thompson Valve II is a next-generation Thompson Valve designed to provide the ultimate in metering performance. It is a normally closed, self sealing, abrasive metering valve with instant, smooth response to either pneumatic or electric deadman controls. This fail-safe valve shuts off abrasive flow to the nozzle and seals the tank at the same instant. A remote abrasive cut-off is available, allowing the operator to stop the flow of media while continuing a constant flow of air. This provides a quick and easy way to clear the blast hose and blasting area of abrasive. The Thompson Valve II is ideal for multiple outlet use and is easily adaptable to most existing blasting systems. A lower overall profile allows more room between valve and blast pot for easy access.

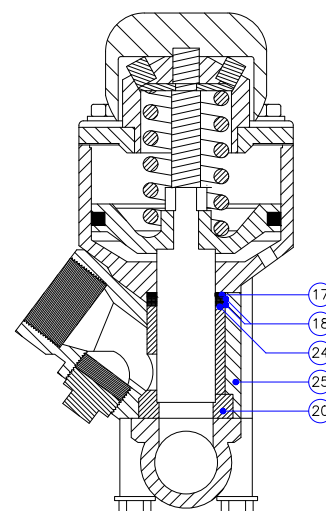
Building on the original, market leading Thompson Valve, the Thompson Valve II offers an even higher level of performance, enhanced serviceability and longer life.

### Features

- Spring is preloaded with spring retainer (not shown). Allows for easy spring replacement.
- Triple plunger seals prevent media from entering piston chamber and extend valve life.
- Bolt-on cap provides easier service access to piston and piston seal.
- A short path helps ensure constant abrasive media flow.
- Orifice is sized for precise metering of abrasive.
- Rugged, non-corrosive body.
- O-ring on sleeve prevents media entrapment, reduces sliding friction.
- Larger seat allows for better media flow into the air stream. A shallower seat angle prevents media from being trapped under the plunger, extending part life.
- Middle section is separate from cylinder to provide easier removal of sleeve, plunger seal and seat during service.

Airblast Eurospray offers a full selection of metering valves. Contact us to discuss which metering valve is most suitable for your specific application.

Part no.	Description
AB6093200	Thompson Valve II - 1" w/Tungsten Carbide sleeve
AB6093300	Thompson Valve II - 1" w/Urethane sleeve
AB6093400	Thompson Valve II - 1¼" w/Tungsten Carbide sleeve
AB6093500	Thompson Valve II - 1¼" w/Urethane sleeve
AB6093600	Thompson Valve II - 1½" w/Tungsten Carbide sleeve
AB6093700	Thompson Valve II - 1½" w/Urethane sleeve

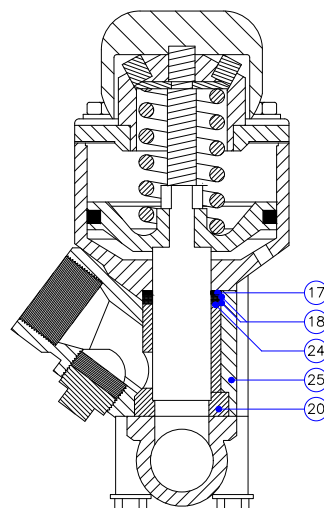
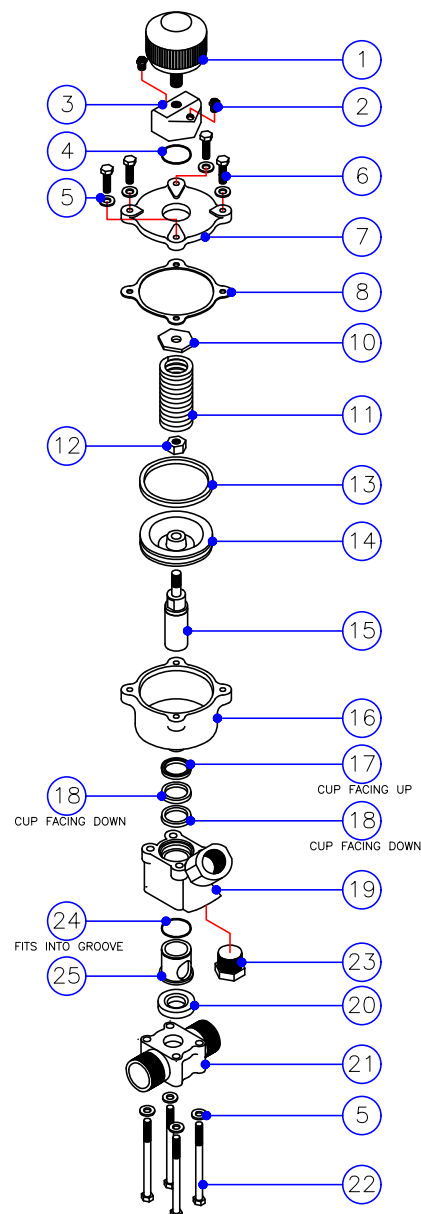




# THOMPSON VALVE II

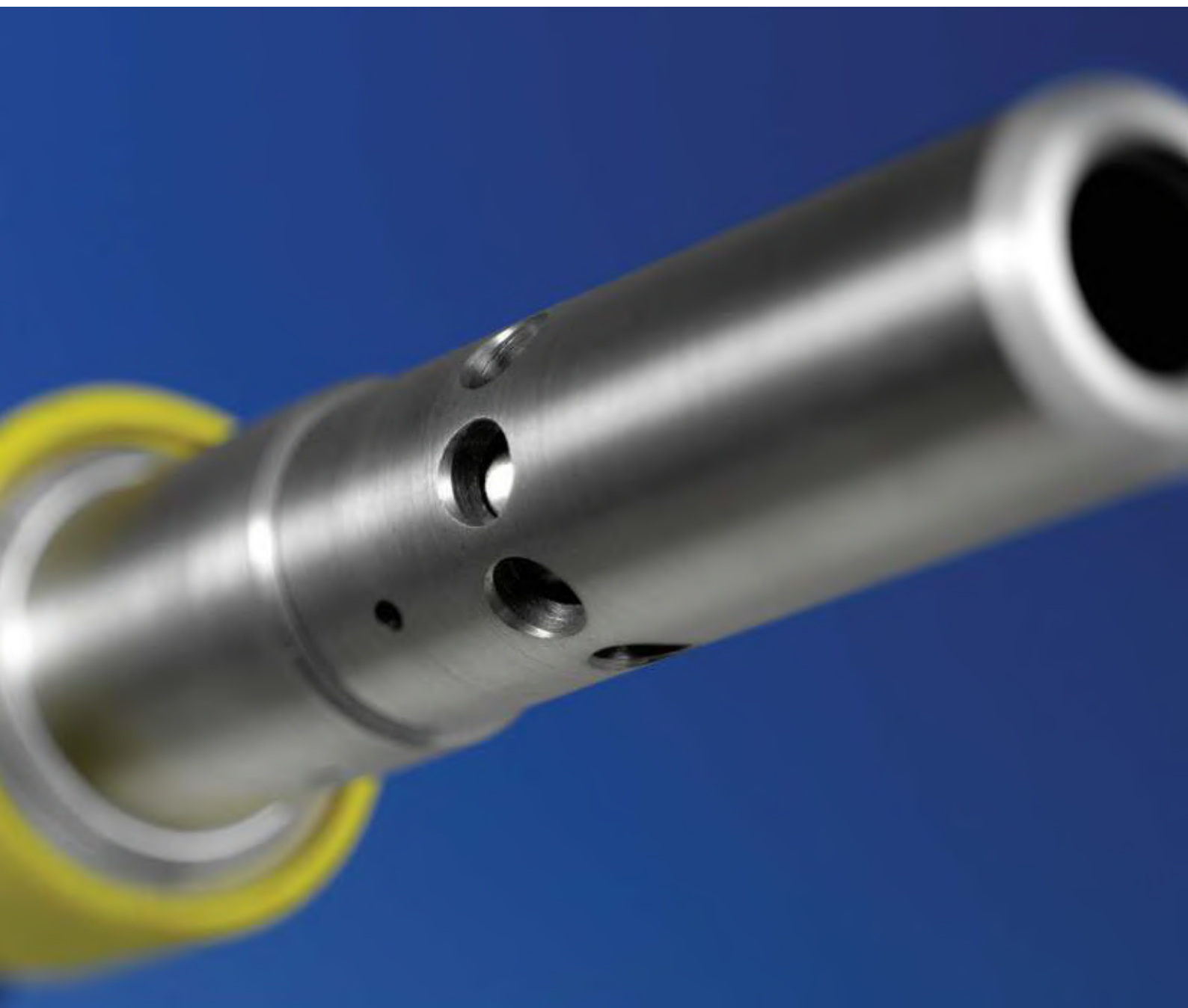
## Abrasive Metering Valve – Parts list

Item	Part no.	Description	TC	U	Qty
01	AB6099010	Control knob			1
02	AB6099020	Breather vent			1
03	AB6099030	Spring retainer			1
04	AB6099040	O-ring	*	**	1
05	AB6099050	Washer			1
06	AB6099060	Hex bolt, 3/8" UNC x 1 1/4" Lg.			1
07	AB6099070	Cap plate			1
08	AB6099080	Cap gasket	*	**	1
10	AB6091200	Bump ring			1
11	AB6099090	Spring			1
12	AB6099100	Nut			1
13	AB6091500	Piston seal	*	**	1
14	AB6099110	Piston			1
15	AB6099120	Tungsten carbide plunger	*	**	1
16	AB6099130	Cylinder			1
17	AB6091900	Plunger seal (1x)			1
18	AB6099140	Plunger seal (2x)			2
19	AB6099150	Body			1
20	AB6099160	Seat			1
21a	AB6099170	Base 1" NPT			1
21b	AB6099180	Base 1 1/4" NPT			1
21c	AB6099190	Base 1 1/2" NPT			1
22	AB6099200	Hex bolt, 3/8" UNC x 4 3/4" Lg.			1
23	AB6099210	Plug			1
24	AB6099220	O-ring			1
25a	AB6099230	Tungsten carbide sleeve	*		1
25b	AB6099240	Urethane sleeve		**	1
26	AB6099250	Sleeve pin			1
		AB6093800	Repair kit for Tungsten Carbide sleeve, consists of *marked items		
		AB6093900	Repair kit for Urethane sleeve, consists of **marked items		



World-leading Surface Preparation and Finishing Solutions

# Nozzles, Holders, Hoses and Couplings



## ATSD (X) TUNGSTEN CARBIDE BLASTING NOZZLES

The ATSD(X) range comprises of Tungsten Carbide-lined Long Venturi nozzles with aluminium jackets. Tungsten Carbide is the liner material of choice for the majority of contractors due to long life and impact resistance – the aluminium jacket adds to the rugged character of the nozzle. Long Venturi nozzles are used in standard applications in which the blaster operates at a distance of more than 30cm (or 12”) from the surface.

The ATSD nozzle has a 25mm (1”) inlet and the ATJDX has a 32mm (1¼”) inlet - both are available with a standard large thread (/50) or fine thread.

Airblast Eurospray high velocity Long Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle, providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2001000	ATSD-3 TC Nozzle with fine thread	4.8	135	25
AB2002000	ATSD-4 TC Nozzle with fine thread	6.4	135	25
AB2003000	ATSD-5 TC Nozzle with fine thread	8.0	145	25
AB2004000	ATSD-6 TC Nozzle with fine thread	9.5	170	25
AB2005000	ATSD-7 TC Nozzle with fine thread	11.0	200	25
AB2006000	ATSD-8 TC Nozzle with fine thread	13.0	230	25
AB2007000	ATSDX-4 TC Nozzle with fine thread	6.4	135	32
AB2008000	ATSDX-5 TC Nozzle with fine thread	8.0	145	32
AB2009000	ATSDX-6 TC Nozzle with fine thread	9.5	170	32
AB2010000	ATSDX-7 TC Nozzle with fine thread	11.0	200	32
AB2011000	ATSDX-8 TC Nozzle with fine thread	13.0	230	32
AB2012000	ATSDX-10 TC Nozzle with fine thread	16.0	230	32
AB2013000	ATSDX-12 TC Nozzle with fine thread	19.0	230	32
AB2014000	ATSD-3/50 TC Nozzle with large 50mm thread	4.8	135	25
AB2015000	ATSD-4/50 TC Nozzle with large 50mm thread	6.4	135	25
AB2016000	ATSD-5/50 TC Nozzle with large 50mm thread	8.0	145	25
AB2017000	ATSD-6/50 TC Nozzle with large 50mm thread	9.5	170	25
AB2018000	ATSD-7/50 TC Nozzle with large 50mm thread	11.0	200	25
AB2019000	ATSD-8/50 TC Nozzle with large 50mm thread	13.0	230	25
AB2020000	ATSDX-4/50 TC Nozzle with large 50mm thread	6.4	135	32
AB2021000	ATSDX-5/50 TC Nozzle with large 50mm thread	8.0	145	32
AB2022000	ATSDX-6/50 TC Nozzle with large 50mm thread	9.5	170	32
AB2023000	ATSDX-7/50 TC Nozzle with large 50mm thread	11.0	200	32
AB2024000	ATSDX-8/50 TC Nozzle with large 50mm thread	13.0	230	32
AB2025000	ATSDX-10/50 TC Nozzle with large 50mm thread	16.0	230	32
AB2026000	ATSDX-12/50 TC Nozzle with large 50mm thread	19.0	230	32

The standard size thread of the nozzle is 50mm, which is indicated by /50 in the part number. Without this indication the nozzle has a fine thread of 41mm.

## AT(L) TUNGSTEN CARBIDE SHORT BLASTING NOZZLES

The AT(L) range comprises of Tungsten Carbide-lined Short Venturi nozzles with aluminium jackets. Tungsten Carbide is the liner material of choice for the majority of contractors due to long life and impact resistance – the aluminium jacket adds to the rugged character of the nozzle.

This range is designed to fit to a 13mm (½”) blast hose and to be used on 18ltr blast pots or in blast cabinets. The ATL nozzles have a large thread (28mm) and the AT nozzles have a finer thread (26mm).

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2085000	AT-2 TC Nozzle with fine 26mm thread	3.2	45	13
AB2086000	AT-3 TC Nozzle with fine 26mm thread	4.8	45	13
AB2087000	AT-4 TC Nozzle with fine 26mm thread	6.5	45	13
AB2088000	AT-5 TC Nozzle with fine 26mm thread	8.0	45	13
AB2089000	AT-6 TC Nozzle with fine 26mm thread	9.5	45	13
AB2090000	AT-8 TC Nozzle with fine 26mm thread	13.0	45	13
AB2085100	ATL-2 TC Nozzle with large 28mm thread	3.2	45	13
AB2086100	ATL-3 TC Nozzle with large 28mm thread	4.8	45	13
AB2087100	ATL-4 TC Nozzle with large 28mm thread	6.5	45	13
AB2088100	ATL-5 TC Nozzle with large 28mm thread	8.0	45	13
AB2089100	ATL-6 TC Nozzle with large 28mm thread	9.5	45	13
AB2090100	ATL-8 TC Nozzle with large 28mm thread	13.0	45	13

MAKE SURE YOU SELECT  
THE RIGHT NOZZLE FOR  
THE WORK AT HAND.

CONTACT OUR SALES TEAM FOR ADVICE  
ON 01778 560650



## ATCUX(S) TUNGSTEN CARBIDE SHORT BLASTING NOZZLES

The ATCUX(S) range comprises of Tungsten Carbide-lined Long Venturi nozzles with lightweight durable urethane jacket. Tungsten Carbide is the liner material of choice for the majority of contractors due to its long life and impact resistance - the urethane jacket adds to the durable character of the nozzle. Long Venturi nozzles are used in standard applications in which the blaster operates at a distance of more than 30cm (or 12") from the surface.

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



The ATCUXS nozzle has a 25mm (1") inlet and large 50mm thread. Colour: blue

Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2474500	ATCUXS-3/50 TC Nozzle with large 50mm thread	4.8	74	25
AB2475000	ATCUXS-4/50 TC Nozzle with large 50mm thread	6.5	74	25
AB2476000	ATCUXS-5/50 TC Nozzle with large 50mm thread	8.0	74	25
AB2477000	ATCUXS-6/50 TC Nozzle with large 50mm thread	9.5	74	25
AB2478000	ATCUXS-7/50 TC Nozzle with large 50mm thread	11.0	74	25
AB2479000	ATCUXS-8/50 TC Nozzle with large 50mm thread	12.5	74	25

The ATCUX nozzle has a 32 mm (1¼") inlet and a large 50mm thread. Colour: green

Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2470000	ATCUX-4/50 TC Nozzle with large 50mm thread	6.5	130	32
AB2471000	ATCUX-5/50 TC Nozzle with large 50mm thread	8.0	150	32
AB2472000	ATCUX-6/50 TC Nozzle with large 50mm thread	9.5	170	32
AB2473000	ATCUX-7/50 TC Nozzle with large 50mm thread	11.0	200	32
AB2474000	ATCUX-8/50 TC Nozzle with large 50mm thread	12.5	210	32

# ADV TUNGSTEN CARBIDE DOUBLE VENTURI NOZZLES

The Double Venturi offers a 35% larger blast pattern than a standard Long Venturi with only a slight loss in abrasive velocity.

Designed to be used on jobs where medium cutting action is required with a more even dispersion of abrasive throughout the larger blast pattern.

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



## ADV - Double Venturi Nozzle. Aluminium jacket/steel barrel/TC liner with fine thread (1.25" 11.5 TPI-NPSM)

Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2440000	ADV-4	6.4	159	25
AB2441000	ADV-5	8.0	173	25
AB2442000	ADV-6	9.5	189	25
AB2443000	ADV-7	11.0	228	25
AB2444000	ADV-8	13.0	247	25

## ADV - Double Venturi Nozzle. Aluminium jacket/steel barrel/TC liner with large thread (2" 4.5 TPI UNC)

Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2450000	ADV-4/50	6.4	159	25
AB2451000	ADV-5/50	8.0	173	25
AB2452000	ADV-6/50	9.5	189	25
AB2453000	ADV-7/50	11.0	228	25
AB2454000	ADV-8/50	13.0	247	25

**HAVE YOU SELECTED THE RIGHT NOZZLE FOR THE WORK?**

Performance will vary depending on nozzle type and abrasive.

**GET IN TOUCH TO DISCUSS THE OPTIONS CALL 01778 560650**





## ABS(X) SILICON NITRIDE BLASTING NOZZLES

The ABSN(X) range comprises of Silicon Nitride lined Long Venturi nozzles with polyurethane jackets. The use of the Silicon Nitride liner reduces the weight of the nozzle by approximately 50% when compared with standard nozzles of the same size – this reduces operator fatigue. Silicon Nitride is also more durable than other nozzle liners making an operating life of over 500 hours possible. The polyurethane jacket cushions the liner in tough job site conditions. The molding of the polyurethane is carried out by vacuum which guarantees an accurate fit into the nozzle holder.

The ABSN nozzle has a 25mm (1") inlet and the ABSNX has a 32mm (1¼") inlet and are available with a standard large thread (/50) or fine thread.

Airblast Eurospray high velocity Long Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2026100	ABSN – 3/50 Silicon Nitride nozzle with large 50mm thread	4.8	115	25
AB2026200	ABSN – 4/50 Silicon Nitride nozzle with large 50mm thread	6.5	135	25
AB2026300	ABS(X) – 5/50 Silicon Nitride nozzle with large 50mm thread	8	150	32
AB2026400	ABS(X) – 6/50 Silicon Nitride nozzle with large 50mm thread	9.5	170	32
AB2026500	ABS(X) – 7/50 Silicon Nitride nozzle with large 50mm thread	11	205	32
AB2026700	ABS(X) – 8/50 Silicon Nitride nozzle with large 50mm thread	13	235	32

## ABSC(X) SILICON CARBIDE BLASTING NOZZLES

The ABSC(X) range comprises of Silicon Carbide lined Long Venturi nozzles with polyurethane jackets. The use of the Silicon Carbide liner reduces the weight of the nozzle by approximately 40% when compared with standard nozzles of the same size – this reduces operator fatigue. Silicon Carbide is also a very durable nozzle liner providing increased operating life when compared to standard nozzle liners.

The ABSC nozzle has a 25mm (1") inlet and the ABSCX has a 32mm (1¼") inlet and are available with a standard large thread (/50).

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2048300	ABSCX – 5/50 Silicon Carbide nozzle with large 50mm thread	8.0	145	32
AB2048400	ABSCX – 6/50 Silicon Carbide nozzle with large 50mm thread	9.5	170	32
AB2048500	ABSCX – 7/50 Silicon Carbide nozzle with large 50mm thread	11.0	200	32
AB2048600	ABSCX – 8/50 Silicon Carbide nozzle with large 50mm thread	13.0	230	32

TAKE CARE TO SELECT  
THE RIGHT NOZZLE FOR  
YOUR PROJECT.

CONTACT OUR SALES TEAM FOR ADVICE  
ON 01778 560650



## ABSC(X) BORON CARBIDE BLASTING NOZZLES

The ABC(X) range comprises of Boron Carbide lined Long Venturi nozzles with an aluminium jacket. Boron Carbide is the most durable liner available – therefore these nozzles perform especially well with aggressive abrasives such as aluminium oxide, silicon carbide and steel grit, and are therefore often used in blast rooms.

The ABC(X) nozzle has a 25mm (1”) inlet and the ABSNX has a 32mm (1¼”) inlet and are available with a standard large thread (1/50) or fine thread.

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2121900	ABC-3 BC nozzle with fine thread	5.0	140	25
AB2122000	ABC-4 BC nozzle with fine thread	6.0	140	25
AB2122100	ABC-5 BC nozzle with fine thread	8.0	140	25
AB2122200	ABC-5 BC nozzle with fine thread	8.0	165	25
AB2122300	ABC-6 BC nozzle with fine thread	10.0	165	25
AB2122400	ABC-8 BC nozzle with fine thread	12.0	165	25
AB2122600	ABC-9 BC nozzle with fine thread	14.0	220	25
AB2307000	ABCX-3 BC nozzle with fine thread	5.0	140	32
AB2307100	ABCX-4 BC nozzle with fine thread	6.0	140	32
AB2307200	ABCX-5 BC nozzle with fine thread	8.0	140	32
AB2307300	ABCX-5 BC nozzle with fine thread	8.0	165	32
AB2307400	ABCX-6 BC nozzle with fine thread	10.0	165	32
AB2307500	ABCX-8 BC nozzle with fine thread	12.0	165	32
AB2307700	ABCX-9 BC nozzle with fine thread	14.0	220	32
AB2120600	ABC-3/50 BC nozzle with large 50mm thread	5.0	140	25
AB2120700	ABC-4/50 BC nozzle with large 50mm thread	6.0	140	25
AB2120800	ABC-5/50 BC nozzle with large 50mm thread	8.0	140	25
AB2120900	ABC-5/50 BC nozzle with large 50mm thread	8.0	165	25
AB2121000	ABC-6/50 BC nozzle with large 50mm thread	10.0	165	25
AB2121100	ABC-8/50 BC nozzle with large 50mm thread	12.0	165	25
AB2121300	ABC-9/50 BC nozzle with large 50mm thread	14.0	220	25
AB2307800	ABCX - 3/50 BC nozzle with large 50mm thread	5.0	140	32
AB2307900	ABCX - 4/50 BC nozzle with large 50mm thread	6.0	140	32
AB2308000	ABCX - 5/50 BC nozzle with large 50mm thread	8.0	140	32
AB2308100	ABCX - 5/50 BC nozzle with large 50mm thread	8.0	165	32
AB2308200	ABCX - 6/50 BC nozzle with large 50mm thread	10.0	165	32
AB2308201	ABCX - 7/50 BC nozzle with large 50mm thread	11.0	165	32
AB2308300	ABCX - 8/50 BC nozzle with large 50mm thread	12.0	165	32
AB2308400	ABCX - 8/50 BC nozzle with large 50mm thread	12.0	220	32

## ASB TUNGSTEN CARBIDE SPINNERBLAST NOZZLES

Airblast Eurospray high velocity Venturi style nozzles have been designed specifically to give maximum blast cleaning rates, uniform abrasive distribution and efficiency over an extensive operating life. Through the Venturi principle, the air and abrasive mixture is accelerated as it exits the nozzle. Venturi nozzles increase productivity and reduce abrasive consumption by approximately 40% as compared with straight bore nozzles. Airblast Eurospray offers a full selection of nozzles with different orifice diameters, sizes, and insert/jacket materials.

The orifice size of the blasting nozzle determines the cleaning rate, abrasive consumption and air consumption. When choosing a nozzle, you should consider the cleaning rate required, available compressed air, size of the blast pot and the internal diameter of the piping, the blast hose and the air hose. In most blasting operations a number 5 (with 8mm orifice) or number 6 (with 9.5mm orifice) nozzle is used.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2107000	ASB-13 TC Spinnerblast nozzle	6.5	55	13
AB2108000	ASB-14 TC Spinnerblast nozzle	8.0	55	13
AB2109000	ASB-15 TC Spinnerblast nozzle	8.0	85	13
AB2110000	ASB-16 TC Spinnerblast nozzle	9.5	65	13
AB2111000	ASB-17 TC Spinnerblast nozzle	9.5	108	13

FIND OUT HOW TO  
SELECT THE RIGHT  
NOZZLE FOR YOUR  
WORK.

CONTACT OUR SALES TEAM FOR ADVICE  
ON 01778 560650



## WIN WATER INJECTION BLASTING NOZZLES

Airblast Eurospray high velocity Venturi style nozzles have been designed specifically to give maximum blast cleaning rates, uniform abrasive distribution and efficiency over an extensive operating life. Through the Venturi principle, the air and abrasive mixture is accelerated as it exits the nozzle. Venturi nozzles increase productivity and reduce abrasive consumption by approximately 40% compared to straight bore nozzles. Airblast Eurospray offers a full selection of nozzles with different orifice diameters, sizes, and insert/jacket materials.

### WIN Nozzle

The WIN (Water Injection Nozzle) system is a simple, cost effective solution for high production, wet abrasive blasting that can be used with your existing pressure blast equipment. The system can be used with water from a tap or with rust inhibitors supplied through any simple pump. No special equipment is required. The WIN system offers the highest performance possible in wet abrasive blasting technology.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2460000	WIN-4/50 Water Injection nozzle with large 50mm thread	6.4	149	25
AB2461000	WIN-5/50 Water Injection nozzle with large 50mm thread	7.9	158	25
AB2462000	WIN-6/50 Water Injection nozzle with large 50mm thread	9.5	171	25
AB2463000	WIN-8/50 Water Injection nozzle with large 50mm thread	12	227	25

## AAM ANGLE BLASTING NOZZLES

The AAM range comprises of Tungsten Carbide-lined angle nozzles with aluminium jackets. These compact nozzles blast at a 45 degree angle making them suitable for use in inaccessible or blind areas such as the reverse side of beams, flanges, bridge lattice work and inside of pipes. Tungsten Carbide is the liner material of choice for the majority of contractors due to its long life and impact resistance – the aluminium jacket adds to the rugged character of the nozzle.

The AAM nozzles are available with either one, two or three abrasive discharge orifices and an orifice range of 3.2mm to 9.5mm. The AAM nozzles come with either a fine (AAM) or large (AAM/50) thread.

Airblast Eurospray high velocity Venturi style nozzles have been designed to maximise blast cleaning rates and provide uniform abrasive distribution. The Venturi design accelerates the air/abrasive mix as it exits the nozzle providing additional momentum – this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.



Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2055000	AAM-2x1 TC nozzle with fine 41mm thread	1 x 3.2	80	20
AB2056000	AAM-2x2 TC nozzle with fine 41mm thread	2 x 3.2	80	20
AB2057000	AAM-2x3 TC nozzle with fine 41mm thread	3 x 3.2	80	20
AB2058000	AAM-3x1 TC nozzle with fine 41mm thread	1 x 4.8	80	20
AB2059000	AAM-3x2 TC nozzle with fine 41mm thread	2 x 4.8	80	20
AB2060000	AAM-3x3 TC nozzle with fine 41mm thread	3 x 4.8	80	20
AB2061000	AAM-4x1 TC nozzle with fine 41mm thread	1 x 6.5	80	20
AB2062000	AAM-4x2 TC nozzle with fine 41mm thread	2 x 6.5	80	20
AB2063000	AAM-4x3 TC nozzle with fine 41mm thread	3 x 6.5	80	20
AB2064000	AAM-5x1 TC nozzle with fine 41mm thread	1 x 8.0	80	20
AB2065000	AAM-5x2 TC nozzle with fine 41mm thread	2 x 8.0	80	20
AB2066000	AAM-5x3 TC nozzle with fine 41mm thread	3 x 8.0	80	20
AB2067000	AAM-6x1 TC nozzle with fine 41mm thread	1 x 9.5	80	20
AB2068000	AAM-6x2 TC nozzle with fine 41mm thread	2 x 9.5	80	20
AB2069000	AAM-6x3 TC nozzle with fine 41mm thread	3 x 9.5	80	20
AB2070000	AAM-2x1/50 TC nozzle with large 50mm thread	1 x 3.2	80	20
AB2071000	AAM-2x2/50 TC nozzle with large 50mm thread	2 x 3.2	80	20
AB2072000	AAM-2x3/50 TC nozzle with large 50mm thread	3 x 3.2	80	20
AB2073000	AAM-3x1/50 TC nozzle with large 50mm thread	1 x 4.8	80	20
AB2074000	AAM-3x2/50 TC nozzle with large 50mm thread	2 x 4.8	80	20
AB2075000	AAM-3x3/50 TC nozzle with large 50mm thread	3 x 4.8	80	20
AB2076000	AAM-4x1/50 TC nozzle with large 50mm thread	1 x 6.5	80	20
AB2077000	AAM-4x2/50 TC nozzle with large 50mm thread	2 x 6.5	80	20
AB2078000	AAM-4x3/50 TC nozzle with large 50mm thread	3 x 6.5	80	20
AB2079000	AAM-5x1/50 TC nozzle with large 50mm thread	1 x 8.0	80	20
AB2080000	AAM-5x2/50 TC nozzle with large 50mm thread	2 x 8.0	80	20
AB2081000	AAM-5x3/50 TC nozzle with large 50mm thread	3 x 8.0	80	20
AB2082000	AAM-6x1/50 TC nozzle with large 50mm thread	1 x 9.5	80	20
AB2083000	AAM-6x2/50 TC nozzle with large 50mm thread	2 x 9.5	80	20
AB2084000	AAM-6x3/50 TC nozzle with large 50mm thread	3 x 9.5	80	20

# ABCFT/ABCA/ABCC/ABCR NOZZLES

**ABCFT – Flange type Boron Carbide fishtail nozzle for use in combination with ABCLI lead-in nozzles and ANH/ASNH nozzle holders**

Part no.	Description	Orifice (mm)	Length (mm)
AB2130200	ABCFT - 10/4	10 x 4	72
AB2130300	ABCFT - 15/5	15 x 5	72
AB2130400	ABCFT - 16/8	16 x 8	82

**ABCA – Flange type Boron Carbide angle nozzle for use in combination with ABCLI lead-in nozzles and ANH/ASNH nozzle holders**

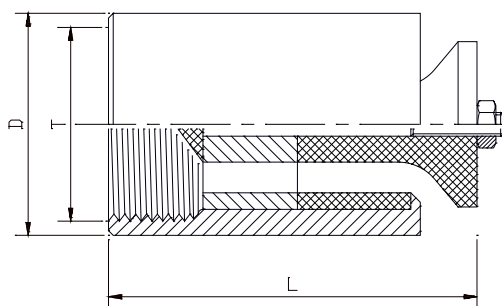
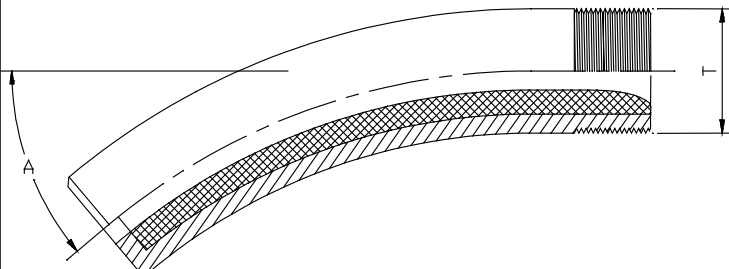
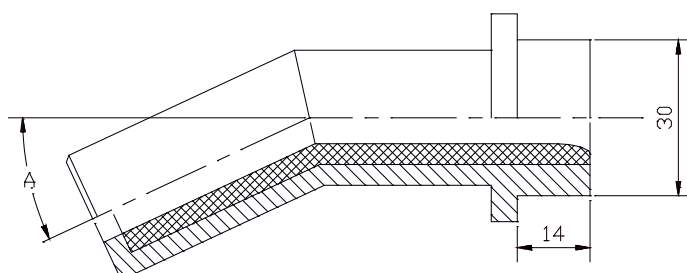
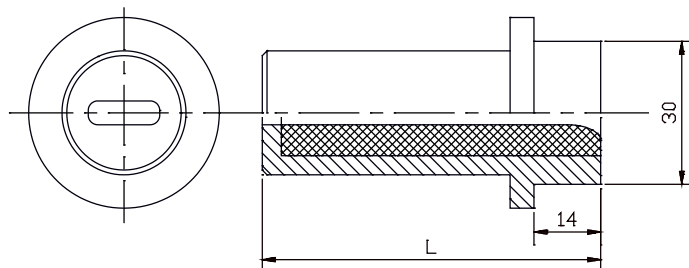
Part no.	Description	Orifice (mm)	Length (mm)	Angle (°)
AB2130700	ABCA - 20/8	8	100	20
AB2130800	ABCA - 20/10	10	100	20
AB2130900	ABCA - 20/12	12	100	20
AB2131000	ABCA - 25/8	8	100	25
AB2131100	ABCA - 25/10	10	100	25
AB2131200	ABCA - 25/12	12	100	25
AB2131300	ABCA - 30/8	8	105	30
AB2131400	ABCA - 30/10	10	105	30
AB2131500	ABCA - 30/12	12	105	30
AB2131600	ABCA - 40/8	8	115	40
AB2131700	ABCA - 40/10	10	115	40
AB2131800	ABCA - 40/12	12	115	40

**ABCC – Curved nozzle with fine 26mm thread (3/4")**

Part no.	Description	Orifice (mm)	Length (mm)	Angle (°)
AB2131900	ABCC - 40/6	6	125	40
AB2132100	ABCC - 40/8	8	125	40
AB2132200	ABCC - 40/10	10	125	40

**ABCR – Boron Carbide blast head 360° with metal jacket and replaceable deflection piece**

Part no.	Description	Thread (T")	Diameter (mm)	Length (mm)
AB2309000	ABCR - 38	3/8	22	61
AB2309100	ABCR - 24	1/2	23	61
AB2309200	ABCR - 34	3/4	30	73
AB2309300	ABCR - 44	1 1/4	38	73
AB2309400	ABCR - 54	1 1/4	47	78
AB2309500	ABCA - 64	1 1/2	53	78
AB2309600	Deflection piece for ABCR-38			
AB2309700	Deflection piece for ABCR-24			
AB2309800	Deflection piece for ABCR-34			
AB2309900	Deflection piece for ABCR-44			
AB2310000	Deflection piece for ABCR-54			





# NOZZLE HOLDER, HOSE AND COUPLING ASSEMBLIES



# QUICK COUPLINGS AND NOZZLE HOLDERS

## Quick Couplings

Available in nylon, bronze or malleable iron. Suitable for hoses sized 1" to 2 1/8" outside diameters. Simply fit with screws or bonded couplings. (Gaskets available for all types). New aluminium couplings also available. Ask our sales team for details.

## Nozzle Holders

Available in plastic and aluminium to suit most types of nozzles. Available with fine or 50mm coarse threads and nozzle retainers for the flanged nozzles. To fit 1/2", 3/4", 1" and 1 1/4" blast hoses up to 2 1/8" outside diameters. Can also supply bonded nozzle holders and couplings with test certificate if required.



Type	Stock No.
Nylon 1"	COCQP1
Nylon 1 1/4"	COCQP2
Bronze 1/2"	COCQ0
Bronze 1"	COCQ1
Bronze 1 1/4"	COCQ2
Bronze 2 1/8" OD	COCQ3
Malleable Iron	POT9C1
Pot Coupling	
Bronze 1 1/4"	POT9B
Pot Coupling	
Bronze 1/2"	POT1009
Pot Coupling	

Type	Stock No.
Nylon 1/2"	COCHE0
Nylon 3/4"	CONH1
Nylon 1"	CONHP1
Nylon 1 1/4"	CONHP2
Nylon 2 1/8" OD	CONHP3

Unless indicated, sizes shown are ID of blast hose.

## CAMLOCK COUPLINGS (ALUMINIUM)

Camlock couplings are well-known as quick hose coupling, providing quick connection and disconnection for pumps, tanks, equipment and places where hoses should be changed frequently.

Aluminium cam lock couplings allow you to quickly connect and disconnect your hose in a variety of applications, including dry product transportation where hoses should be changed frequently.

Aluminium cam lock couplings can be used with PVC suction hoses, layflat discharge hoses and other low pressure hoses. They highly simplify the operation and cut down working time. However, cam locks are not suitable for any kind of hose. They are forbidden in compressed air, gas or high pressure applications.

Use T6-heat-treatment, in order to increase the mechanical properties.



Female coupler with hose tail			Male adapter hose tail		
Part no.	Size	Max. WP (bar)	Part no.	Size	Max. WP (bar)
AB2304000	2"	16	AB2304027	2"	16
AB2304010	2½"	10	AB2304028	2½"	10
AB2304011	3"	8	AB2304029	3"	8
AB2304012	4"	7	AB2304030	4"	7
AB2304013	5"	5	AB2304031	5"	5
AB2304014	6"	5	AB2304032	6"	5
Female coupler male thread			Male adapter male thread		
AB2304015	2"	16	AB2304033	2"	16
AB2304016	2½"	10	AB2304034	2½"	10
AB2304017	3"	8	AB2304035	3"	8
AB2304018	4"	7	AB2304036	4"	7
AB2304019	5"	5	AB2304037	5"	5
AB2304020	6"	5	AB2304038	6"	5
Female coupler female thread			Male adapter female thread		
AB2304021	2"	16	AB2304039	2"	16
AB2304022	2½"	10	AB2304040	2½"	10
AB2304023	3"	8	AB2304041	3"	8
AB2304024	4"	7	AB2304042	4"	7
AB2304025	5"	5	AB2304043	5"	5
AB2304026	6"	5	AB2304044	6"	5

# BLAST HOSE

The Airblast Eurospray Blast Hose range is comprised of the highest quality hose manufactured in the most popular diameters and available in two executions. All Airblast Eurospray Blast Hoses feature an antistatic outer case and a lightweight internal knitted nylon ply – this gives the optimum combination of durability, cost and safety.



## Executions

- Heavy execution: Most popular blast hose with excellent tube quality making it suitable for use with all abrasives.
- Extra heavy execution: Premium quality blast hose especially suitable for use with sharp edged hard abrasives.

## Features

- Long service life due to wear-resistant inner tube.
- Antistatic construction prevents the build-up of static electricity.

## Specifications

Cover: SBR, black, antistatic, cloth impression

Reinforcement: Textile wrapped

Tube: NR/SBR/BR, black, smooth, antistatic, abrasion resistant

Working pressure: 12bar

Safety factor: 3.5 : 1

Temperature range: -35°C/+80°C.

Wear factor: Heavy Execution = 50mm<sup>3</sup>, Extra Heavy Execution = 36mm<sup>3</sup> (according to DIN ISO 4649:2006)

Standards: Exceeds EN ISO 3861:2008.

### Blast Hose – Heavy Execution

Part no.	Description	ID (mm)	ID (inches)	OD (mm)	Wall width (mm)	Weight approx kg/m	Available lengths (m)
AB2506000	Blast Hose 13 x 7	13	½"	27	7	0.50	5/10/20/40
AB2506100	Blast Hose 19 x 7	19	¾"	33	7	0.65	10/20/30/40
AB2507000	Blast Hose 25 x 7	25	1"	39	7	0.75	10/20/30/40
AB2508000	Blast Hose 32 x 8	32	1¼"	48	8	1.10	10/20/30/40
AB2509000	Blast Hose 38 x 9	38	1½"	56	9	1.45	40
AB2510000	Blast Hose 42 x 9	42	1¾"	60	9	1.65	40
AB2511000	Blast Hose 50 x 11	50	2"	72	11	2.20	40

### Blast Hose – Extra Heavy Execution

Part no.	Description	ID (mm)	ID (inches)	OD (mm)	Wall width (mm)	Weight approx kg/m	Available lengths (m)
AB2512000	Blast Hose 13 x 7	13	½"	27	7	0.50	5/10/20/40
AB2502100	Blast Hose 19 x 7	19	¾"	33	7	0.65	20/40
AB2513000	Blast Hose 25 x 7	25	1"	39	7	0.80	20/40
AB2514000	Blast Hose 32 x 8	32	1¼"	48	8	1.10	20/40
AB2515000	Blast Hose 38 x 9	38	1½"	56	9	1.50	40

# POLYURETHANE SUCTION/DISCHARGE HOSE

This range of hose can be used to move new abrasive, or discharge spent abrasive. The hose is flexible and kink-proof as well as abrasion resistant. When bent, the hose stays full bore as the PU material is forced to the outside, creating a full flow without obstruction.

Airblast Eurospray range of Suction and Discharge Hoses comprises of the highest quality hoses manufactured and gives you the optimum combination of durability, cost and safety.



## Specifications

Norm: EU 10/2011 Cat. E

Temperature range: -25°C/+85°C

Tube: Transparent Polyurethane smooth inside crushproof PVC spiral, corrugated cover

Bending radius: 1 x inside diameter

## Polyurethane Suction/Discharge Hoses

Part no.	Description	ID (mm)	OD (mm)	Vacuum bar	PU-wall (mm)	Available length (m)
AB2518300	Suction/Discharge Hose 51 x 59	51	59	0.3	0.7	20
AB2518400	Suction/Discharge Hose 63 x 71	63	71	0.3	0.7	20
AB2518500	Suction/Discharge Hose 76 x 85	76	85	0.3	0.7	20
AB2518600	Suction/Discharge Hose 102 x 112	102	112	0.3	0.8	20
AB2518700	Suction/Discharge Hose 127 x 139	127	139	0.3	0.8	20
AB2518800	Suction/Discharge Hose 152 x 165	152	165	0.2	0.8	20

## CLAMPS

### Super Hose Clamps

One bolt clamp, steel with finished side to protect hose.

Zinc plated, chrome and passivated, steel bolt and nut.

Part no.	Range size	Band width (mm)	Band thickness (mm)
AB2180020	64 / 67	22	1.2
AB2180021	74 / 79	24	1.5
AB2180022	86 / 91	24	1.5
AB2180023	113 / 121	24	1.5
AB2180024	140 / 148	26	1.7
AB2180025	162 / 174	26	1.7

Other clamps and sizes are available on request.

# RUBBER SUCTION AND DISCHARGE HOSE

Airblast Eurospray range of Suction and Discharge Hoses comprises of the highest quality hoses manufactured and gives you the optimum combination of durability, cost and safety.

## Rubber Hose

Suction hose for shotblast, pebbles, mud, sand etc. Also for suction/discharge of other abrasives. High abrasive-resistant tube. Light and flexible construction.



## Specifications:

Working pressure:	1bar
Burst pressure:	2.5bar
Vacuum:	0.9bar
Temperature range:	-25°C/+70°C
Wear resistance:	75mm <sup>3</sup> according to DIN 53516
Tube:	NR/SBR, smooth
Cover:	SBR, black, corrugated, fabric finish
Reinforcements:	textile plies, static-wire steel spiral
Bending radius:	2.5 x inside diameter

## Rubber Suction/Discharge Hoses

Part no.	Description	ID (mm)	OD (mm)	Wall width (mm)	Available length (m)
AB8069717	Suction/Discharge Hose 51 x 60	51	60	4.5	20
AB8069708	Suction/Discharge Hose 63 x 72	63	72	4.5	20
AB8069718	Suction/Discharge Hose 76 x 85	76	85	4.5	20
AB8069709	Suction/Discharge Hose 102 x 112	102	112	5	20
AB8069719	Suction/Discharge Hose 127 x 137	127	137	5	20
AB8069710	Suction/Discharge Hose 152 x 164	152	164	6	20

## Couplings

Female coupling for hoseclamp assembly, System "Perrot".

Hot dip galvanised steel with handle. SBR seal.

Handle with all sizes fixed except 8" will be separated and interchangeable.

Male coupling for hoseclamp assembly, System "Bauer"

Hot dip galvanised steel. With hose tail, ball and lever closure ring.

Part no.	Size	For hose inner Ø (mm)	Part no.	Size	For hose inner Ø (mm)
AB2180001	50/50	51	2180010	50/50	51
AB2180002	89/75	76	2180011	89/75	76
AB2180003	108/100	102	2180012	108/100	102
AB2180004	133/125	125	2180013	133/125	125
AB2180005	159/150	152	2180014	159/150	152

# QUICK COUPLINGS AND NOZZLE HOLDERS

## QUICK COUPLINGS

Available in nylon, bronze or malleable iron. Suitable for hoses sized 1" to 2 1/8" outside diameters. Simply fit with screws or bonded couplings. (Gaskets available for all types). New aluminium couplings also available. Ask our sales team for details.

## NOZZLE HOLDERS

Available in plastic and aluminium to suit most types of nozzles. Available with fine or 50mm coarse threads and nozzle retainers for the flanged nozzles. To fit 1/2", 3/4", 1" and 1 1/4" blast hoses up to 2 1/8" outside diameters. Can also supply bonded nozzle holders and couplings with test certificate if required.



### Quick couplings

Type	Stock No
Nylon 1"	ABCOCQP1
Nylon 1 1/4"	ABCOCQP2
Bronze 1/2"	ABCOCQ0
Bronze 1"	ABCOCQ1
Bronze 1 1/4"	ABCOCQ2
Bronze 2 1/8" OD	ABCOCQ3
Malleable Iron Pot Coupling	ABPOT9C1
Bronze 1 1/4" Pot Coupling	ABPOT9B
Bronze 1/2" Pot Coupling	ABPOT1009

### Nozzle holders

Type	Stock No
Nylon 1/2"	COCHE0
Nylon 3/4"	CONH1
Nylon 1"	CONHP1
Nylon 1 1/4"	CONHP2
Nylon 2 1/8" OD	CONHP3
Bronze 1 1/4"	COCQ2
Bronze 2 1/8" OD	COCQ3
Malleable Iron Pot Coupling	POT9C1
Bronze 1 1/4" Pot Coupling	POT9B
Bronze 1/2" Pot Coupling	POT1009



World-leading Surface Preparation and Finishing Solutions

# Personal Protection Equipment



## RPB NOVA 3 BLAST HELMET

The RPB Nova 3 Blast Helmet offers superior comfort and functionality combined with the latest in protection technology.

Tested to the highest industry standards, the respirator is designed for maximum safety and minimum worker downtime. The Nova 3 meets standards worldwide including NIOSH, ANSI Z87.1 - 2010+ and ANSI Z89.1 - 2012 Type 1 Class C so that operators can be confident that they are fully protected.

The durable helmet shell is high pressure injection moulded from engineered nylon to withstand the harshest conditions.

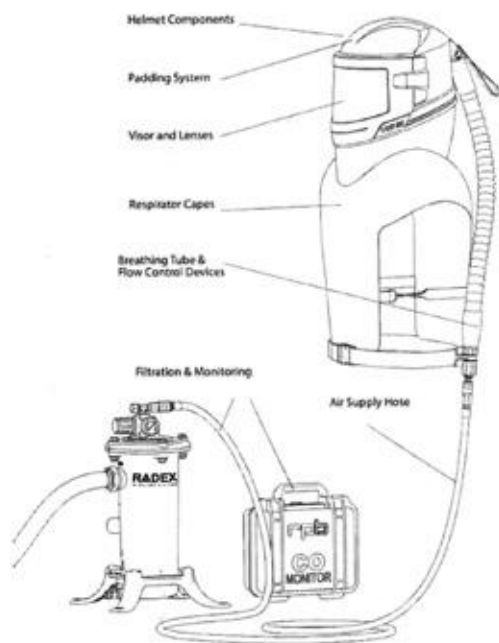
Along with its safety credentials, the Nova 3 also offers maximum comfort. The air is distributed evenly via the air channel and guided into the breathe zone to prevent fogging. Vents on top of the dome allow air to circulate within the helmet to keep users cool while preventing head chill.

In addition, the Nova helmet distributes weight evenly across the head and shoulders and is equipped with "Clever Fit Padding" (patent pending) which allows it to be individually customised to each user, helping to ensure a comfortable fit and reduced fatigue.

It also helps to absorb sound, protecting the operator's hearing and giving them a clear head to concentrate on their work. On top of this, the padding is machine washable to ensure that the helmet stays hygienic and pleasant to wear.

### Features:

- "Fit and Click" inner lens system – easy to operate even when wearing gloves.
- The field-replaceable air inlet fitting has an O-ring seal and a unique thread so it can't be fitted incorrectly.
- Large viewing window provides superior visibility.
- Tear off lens system ensures only one lens is removed at a time for increased productivity.
- Bellow seal system completely seals against dust and particulates.
- Securely attached cape and clip on cape seal prevents dust and abrasive entering the helmet.
- All parts can be removed and re-attached using one hex lock key for easy maintenance.



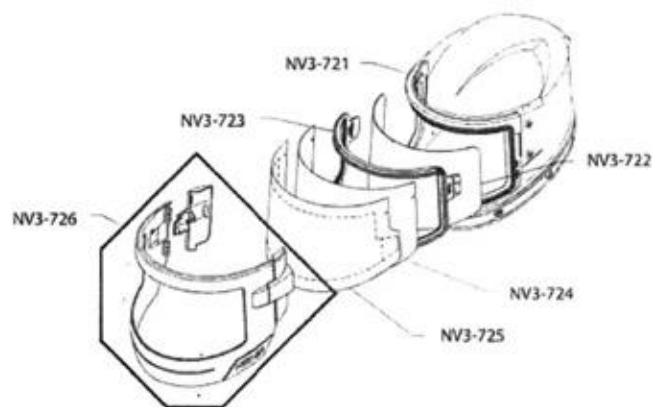
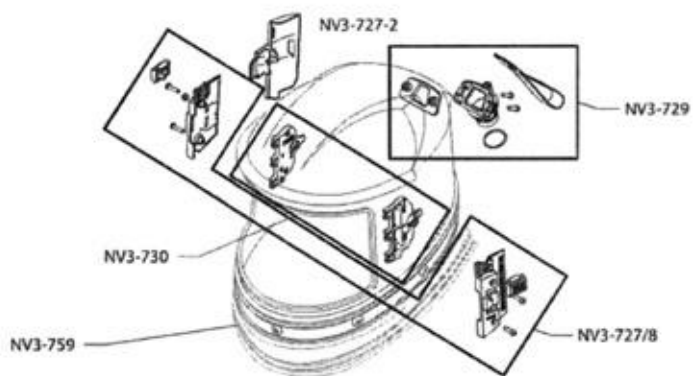
# RPB NOVA 3 BLAST HELMET

## Helmet components – Parts list

Part no.	Description
ABNV3-727-2	Visor hinge lock
ABNV3-727/8	Visor latch mount kit Includes: Latch mount, hinge mount, covers
ABNV3-729	Air inlet kit includes: Air inlet, O-ring, back plate, hanging strap
ABNV3-730	padding connectors (left and right)
ABNV3-759	Cape coverband

## Visor and lenses – Parts list

Part no.	Description
ABNV3-721	Inner gasket
ABNV3-722	Inner lens pack of 10
ABNV3-723	Inner lens frame
ABNV3-724	Outer lens pack of 50
ABNV3-725	Tear-off lens pack of 50
ABNV3-726	Visor kit – Includes: Visor with hinge pin and latch, hinge lock



# RPB NOVA 3 BLAST HELMET

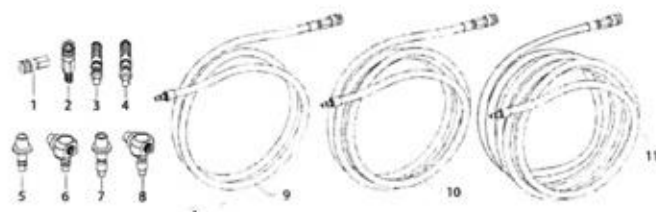
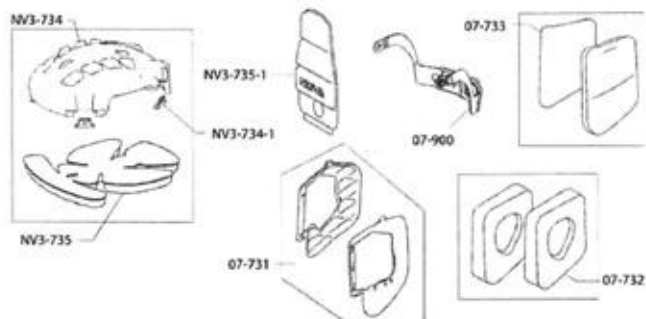
## Padding systems – Parts list

Part no.	Description
ABNV3-731	Side padding frames (left and right)
ABNV3-732-xxx	Side padding foam pads Pack of 5 pairs (A10 Thin, A15 medium, A20 thick)**
ABNV3-734	Head liner kit – Includes: Head liner, head liner foam padding, head liner clip x 4
ABNV3-734-1	Head liner clips, pack of 4
ABNV3-735	Head liner padding
AB07-900	Adjustable head support

\*\*Note that the A10 is for longer head sizes and the A20 is for smaller head sizes.

## Air supply hoses – Parts list

No	Part no.	Description
1	ABNV2025	Quick disconnect coupler
2	AB03-052-CB-RZ	RZ coupler
3	ABNV2024	Quick disconnect
4	AB03-052-PB-RZ	RZ Plug hose
5	ABNV2032	Quick dis.plug male thread
6	AB03-007	Quick dis. swivel
7	AB03-052-PM-RZ	RZ Plug male thread
8	AB03-052-PMS-RZ	RZ swivel plug
9	ABNV2028	7.5m air supply hose
10	ABNV2029	15m Air supply hose
11	ABNV2027	30m Air supply hose



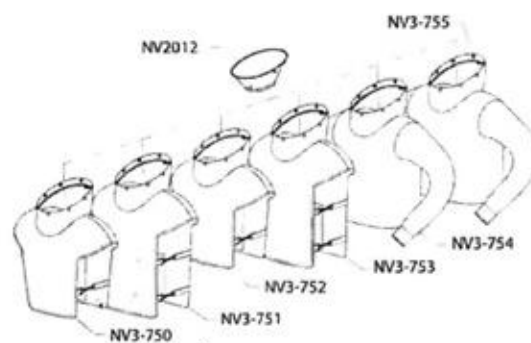
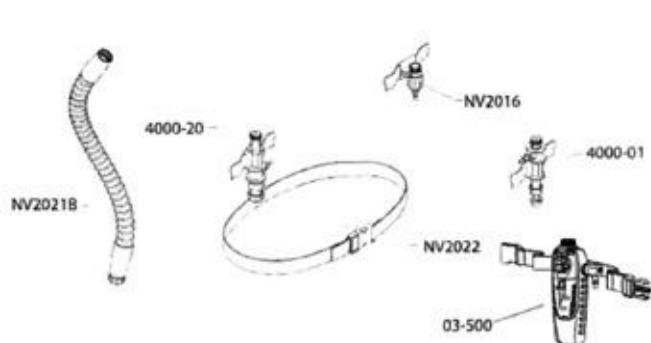
# RPB NOVA 3 BLAST HELMET

## Breathing tube and flow control device – Parts list

Part no.	Description
ABNV20218	Breathing tube (dark grey)
ABNV2022	Belt
ABNV2016	Flow control valve assembly Includes: Flow control valve, belt
AB4000-01	Cool air tube assembly – Includes: Cool air tube, belt
AB4000-20	Hot air tube assembly – Includes: Hot air tube, belt
AB03-500	C40 Climate control tube – Includes: C40 belt

## Respirator capes – Parts list

Part no.	Description
ABNV3-750	28" Nylon cape
ABNV3-751	38" Nylon cape
ABNV3-752	28" Leather cape
ABNV3-753	38" Leather cape
ABNV3-754	Blast jacket size XL
ABNV3-755	Blast jacket size XXL
ABNV2012	Inner bib



# NOVA 2000 BLAST HELMET

The RPB® NOVA 2000™ has been tested and approved to Respiratory Protection standards worldwide including NIOSH, CE and AS/NZS. The NOVA 2000™ has been designed specifically for blasting, by blasting experts. RPB® has incorporated over 100 years of combined blasting experience for improved operator comfort and performance.

## "Fit And Save™" system boosts productivity

The NV2017 Tear off Lenses system is a unique "FIT AND SAVE™" system of pre-folded tabs. This means workers can quickly tear off just one, layered, lens at a time. Contractors have reported a time saving of over 45 minutes a day per blaster using the RPB "FIT AND SAVE™" system, and a resulting increase in productivity.

## Safety above all else

The high standards required of modern work environments make onsite health and safety a priority. Aside from injuries there is the potential cost of business interruption, non-compliance, and risk to company reputation. The NOVA 2000™ Advanced Abrasive Blasting Helmet mimimises the risk to your people, and your business.

## Comfortable kit – clear thinking

A comfortable respirator system dramatically reduces worker fatigue and increases productivity. Lightweight pillow foam padding provides maximum comfort and reduces outside noise to a minimum. A soft breathable inner cape allows perfect airflow while keeping out contaminants, and the advanced Air Duct Distribution System creates a constant flow of breathable air, preventing fogging and keeping workers cool.

The large, double lens offers optimum vision without irritating side glare. Every feature of the NOVA 2000™ has been designed, manufactured and tested to ensure workers' safety and comfort under even the most demanding conditions.



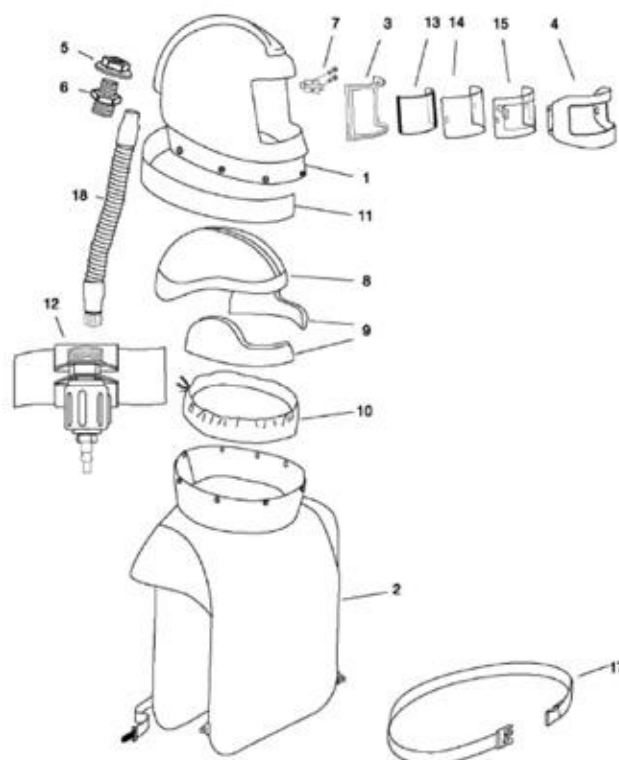
Part no.	Description
PPEHELVN2001	NOVA Air Supplied Blasting Helmet, complete with:
	- In-helmet low flow warning device
	- Breathing air tube assembly
	- Adjustable flow control valve and nylon belt
	- Nylon cape
	- CE approved to EN 271

## Unbeatable

When blasting, protection from debris is the number one safety concern. The NOVA 2000™ has a super-tough shell of high-density polyethylene, which is U.V. stabilised and abrasion-resistant. Two types of capes are available to suit working conditions; lightweight nylon (also available in XL) and rugged, durable leather. Eight purpose-designed domes ensure capes remain secured and in position. And it's built to last even in the most extreme blasting conditions.

Nova – Parts list		
Item	Part no.	Description
02	NV2002	Nylon cape c/w inner bib
03	NV2003	Window frame gasket
04	NV2004	Visor with hinge and screws
05/06	NV2006	Air inlet assembly
07	NV2008	Visor latch and screws
08	NV2009	Polystyrene helmet liner (medium)
09	NV2010	Sidewings (medium)
10	NV2012	Inner bib
11	NV2013	Cape cover band
12	NV2023	Adjustable flow control valve
13	NV2018	Inner lens (pack of 10)
14	NV2031	Outer lens (pack of 50)
15	NV2017C	Tear-off lens (pack of 50)
17	NV2022	Belt with buckles
18	NV2021	Breathing air tube

Optional accessories	
Part no.	Description
NV40001	Cold Air Tube assembly
NV400020	Hot Air Tube assembly





# RADEX AIRLINE FILTER

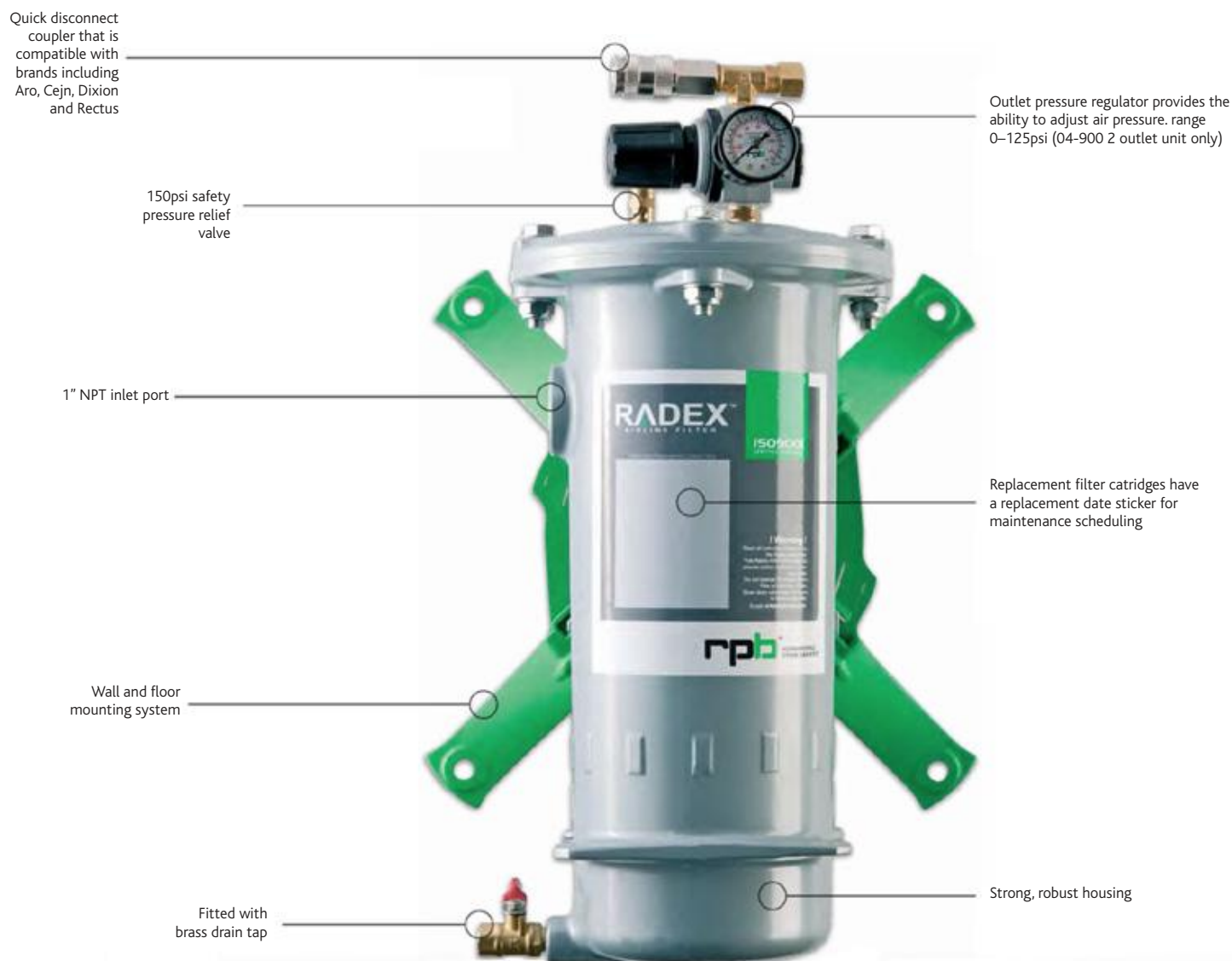
Polluted air can be the cause of major health issues. How can you improve the quality of the air your employees are breathing? The RPB® Radex™ Airline filter exceeds industry filtration standards so you can be assured that your workers won't suffer the consequences of breathing contaminated air.

The Radex Airline Filter is fitted with a large capacity, 6-stage filter cartridge that removes moisture and particulates to 0.5 micron and odour from the compressed air stream, providing clean, breathable air.

An optional auto drain valve is available to fit to your filter that continually removes moisture from the filter housing, increasing the lifespan of the filter cartridge.

## Wall and floor mounting system

- Has a unique twist and lock mounting system, making it easy to mount to the floor or wall.
- No bolts required, simply place in position and turn to lock.

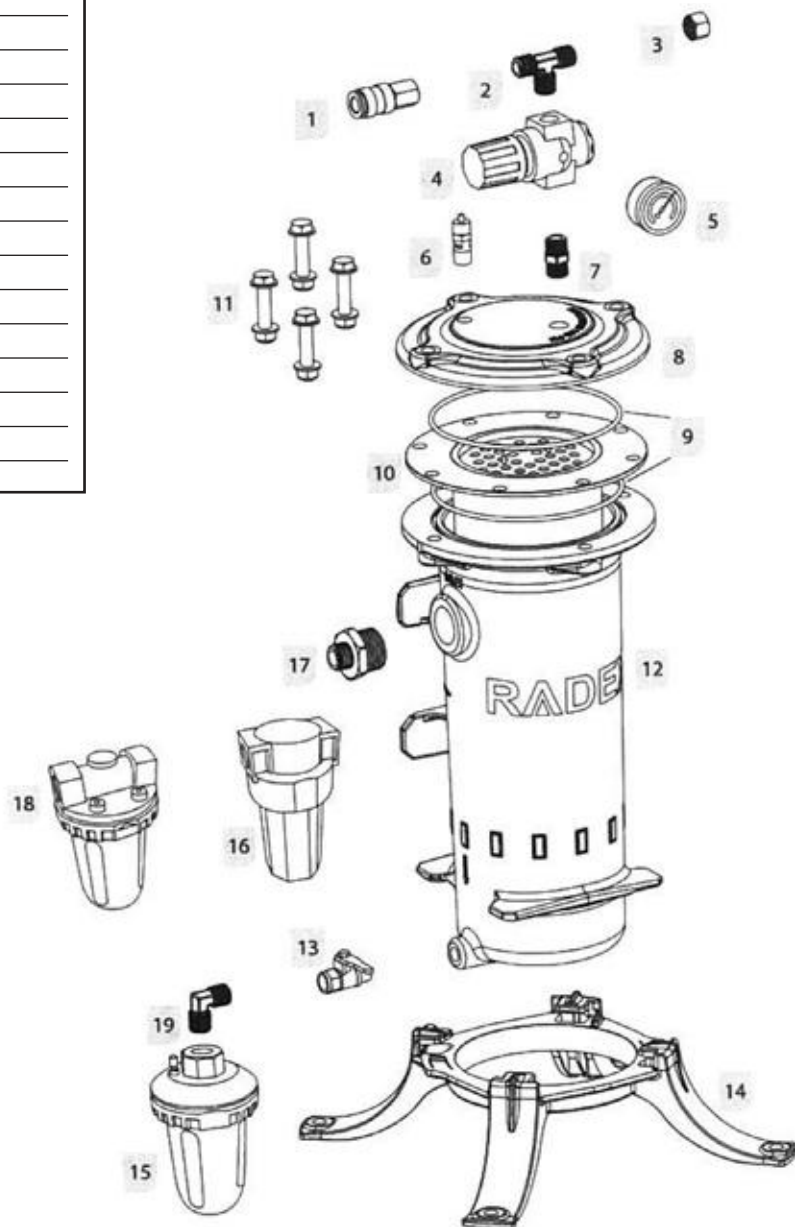




# RADEX AIRLINE FILTER

## Radex Airline filter – Parts list

Item	Part no.	Description
01	AB04-911	Quick disconnect coupler
02	AB04-912	3/8" tee
03	AB04-913	3/8" cap
04	AB04-914	Pressure regulator
05	AB04-915	Pressure gauge
06	AB04-916	Pressure relief valve 125psi
07	AB04-917	3/8" hex nipple
08	AB04-918	Lid
09	AB04-919	Oring (set of 2)
10	ABAPF3100	Filter cartridge
11	AB04-920	Bolt, nut washer (set of 4)
12	AB04-921	Body
13	AB04-922	Drain tap
14	AB04-923	Base mount
15	AB04-924	Auto drain unit
16	AB04-925	Micro mist filter 1/2
17	AB04-926	1" x 1/2 reducing nipple
18	AB04-927	Main line pre filter
19	AB04-928	Brass Elbow



# BULLARD BLAST HELMET

Bullard blasting helmet provides advanced protection in the harsh exposures of blasting and painting. The snug, yet comfortable, sewn-in neck cuff provides a physical barrier to airborne contaminants and helps maintain positive pressure within the helmet. A new double lining in the neck area now enhances durability and protection.

## Comfortable Fit

A lightweight inner shell with an adjustable headband suspension holds the respirator firmly and comfortably on the wearer's head. Airflow is channeled directly to the user's breathing zone for easy breathing. The helmet easily accommodates beards, prescription eye wear, or safety glasses.

## Optimum Visibility

The wide-angle faceshield lens and headband suspension system are positioned for optimum visibility. With the translucent yellow helmet, workers don't experience a closed-in feeling.

## Climate Control

Optional climate control assemblies permit workers to warm or cool incoming air to maximise comfort and improve productivity.

## Features and Benefits

- New latch design on window frame and helmet. Stronger, lower profile provides more tension on window, and protection for the interior hook.
- New breathing tube with more flexible coating and forest green cuffs. More flexible and durable, reducing the amount of strain on the helmet and thus the user's neck.
- New cape design with double lining above neck. Double lining enhances durability, comfort, and protection.
- New latch position behind window frame. Reduces difficulty of attaching cape to helmet and prevents accidental opening.
- New breathing tube positioning loops on back of cape to retain the breathing tube. Reduced snagging hazard on breathing tube.
- Mylar cover lens with new pull-tab design. Easier to pull off used cover lens.



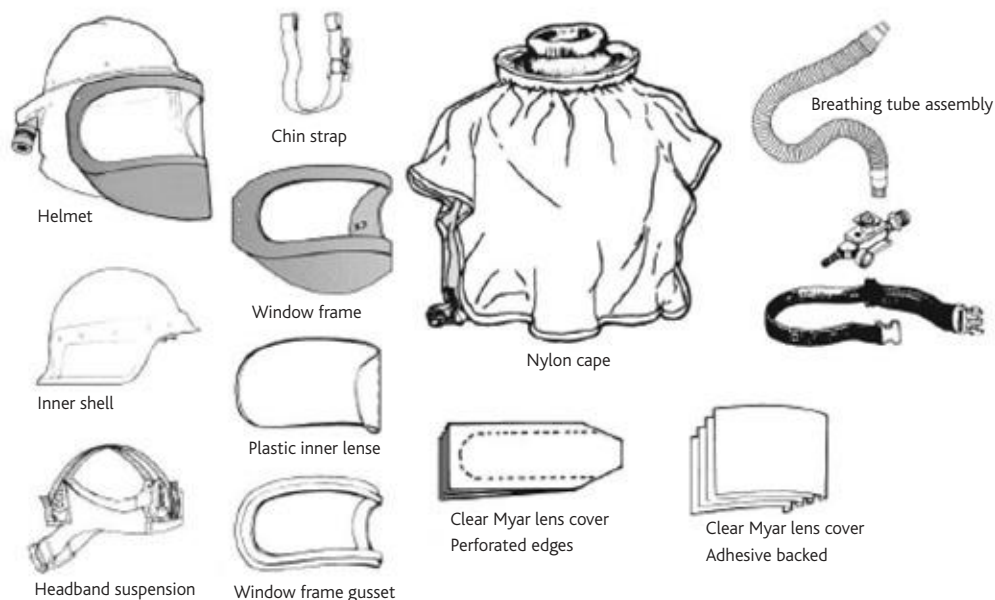
### Model 88E39 assembly

Part no.	Description
PPEHELB88	Air supplied blasting helmet, complete with:
	- Breathing tube
	- 9mm European Interchange nipple, and nylon belt
	- Adjustable flow control valve with low flow warning device and pressure gauge
	- 71cm length nylon cape
	- Inner and outer lens
	- CE approved to EN 271

# BULLARD BLAST HELMET

## Bullard blast helmet spare parts

Part no.	Description
PPEHELB8888BT	88VXBT - Breathing tube – connector not included
PPEPSH4612	4612 - Belt, nylon
PPEHELB8841022	46VX - 71cm length nylon cape (tan) - standard
PPEHELB8813644	13VX - 97cm length nylon cape (tan) - optional
PPEHELB88771040	P771B - Inner lens, acetate, oval, 0.040" thick (single)
PPEHELB880IX100	P771020 - Outer lens, PETG, oval, 0.020" thick (Pk of 50)
PPEHELB88771B	Middle lens (single)
PPEHELB88771LC	77VXLC - Perforated edge clear mylar lens cover (Pk6)
PPEHELB8888TG	88VXTGP - Adjustable headband suspension, incl. sportek brow pad
PPEHELB882ONC	88CS - Elastic chin strap (Pk10)
PPEHELB8888CK	88CK - Breathing tube connector kit, includes: <ul style="list-style-type: none"> <li>- connector with sleeve</li> <li>- hardware</li> <li>- gasket</li> <li>- o-ring</li> </ul>
PPEHELB887712	88VXAK - Window maintenance kit, includes: <ul style="list-style-type: none"> <li>- window frame</li> <li>- window gasket with inner lens</li> <li>- latch assembly</li> </ul>
PPEHELB88F40	F109E - Air flow regulator with quick connect fitting



# AIR FILTER CARTRIDGES

The AFC-B100 and AFC-C100 Air Filter Cartridges will fit into many brands of Air Filter Units available on the market. AFC-B100 fits into Airblast/Bullard and AFC-C100 fits into Clemco Helmet Air Filters.

### Increased Filter Life

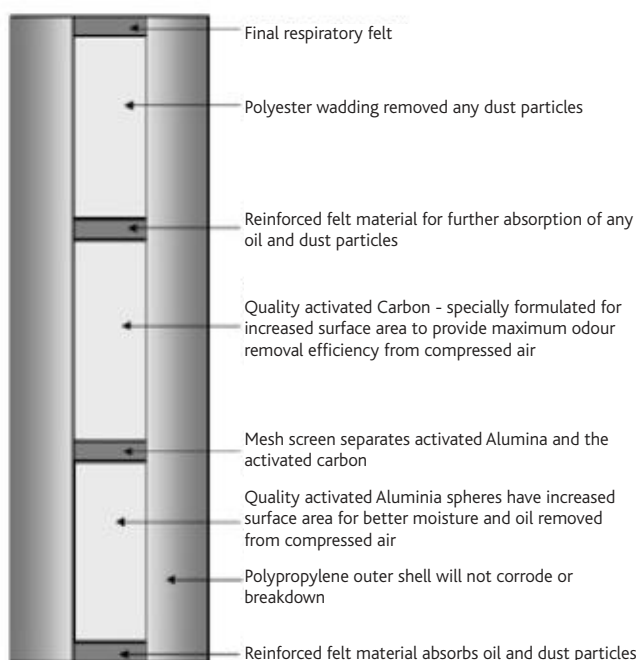
Both Air Filter Cartridges can offer increased filter life with the use of quality filtration materials. Greater material surface area provides increased absorption of oils, water and odours. The natural fibre felt swabs very efficiently absorb oil from the air stream allowing the compressed air to flow through to the further stages of moisture and odour removal.

### Quality Materials

The highest quality filtration materials which are manufactured to exacting standards have been chosen for the above Air Filter Cartridges to ensure the most efficient and effective filtration.

### No Corrosion

The AFC-C100 and AFC-B100 Air Filter Cartridges are injection moulded polypropylene which will not corrode or collapse like tin alternatives.



Part no.	Description
PPEFIL41AFC	AFC-B100
PPEFILCPF3547	AFC-C100

# CLIMATE CONTROL TUBES

The Airblast Eurospray Climate Control Tube for cold air cools compressed breathing air coming into respirators by as much as 18°C. The Climate Control Tube for hot air warms compressed breathing air coming into respirators by as much as 17°C. Both tubes help maximise worker comfort and increase productivity in cold or hot climates.

Climate Control Tubes are fitted with an airflow regulator that allows the user to adjust the outgoing air temperature to suit their requirements. All components of the tube are replaceable and the unit can be disassembled for cleaning and maintenance.

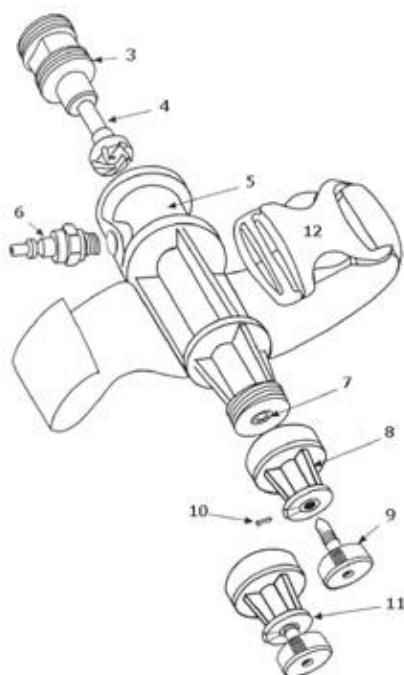
Climate Control Tubes are manufactured from non toxic engineering plastic which is extremely robust and ideal for the rigours of the workplace.

- All parts are easily removable for maintenance and cleaning.
- Tough engineering plastic designed for harsh conditions.
- Regulator to control air temperature and airflow.
- Strong webbed belt.



## Climate Control Tubes

Part no.	Description
PPEHELV40001	Cold Air Tube assembly
PPEHELV400020	Hot Air Tube assembly



## AC1000/HC2400 CLIMATE CONTROL TUBES

### AC1000 Cool Tube

The AC1000 cools incoming air from compressed breathing air sources by as much as 17°C (30°F). It helps maintain worker comfort and maximise productivity while working in extremely hot and humid environments. The AC1000 features an adjustable airflow control valve that allows the user to adjust the incoming air temperature to a level best suited to individual comfort.

### HC2400 Hot/Cold Tube

The HC2400 cools or warms incoming air from compressed breathing air sources. It is ideally suited for early spring or late fall when the air needs warming in the morning and cooling in the afternoon. When used in the cool mode, the Hot/Cold Tube decreases the incoming air temperature by as much as 17°C (30°F). When warm air is desired, the incoming air temperature may be increased by up to 17°C (30°F). The HC2400 features an adjustable airflow control valve that allows users to regulate the temperature of incoming air to a comfortable level. It is simple to convert the HC2400 from cool air to warm air or warm to cool. It takes the worker just seconds to convert from one mode to the other and then resume work activity.

Both models fit to breathing tube of CC20 Paint Spray Hood and Model 88 abrasive blasting helmet.



Part no.	Description
PPEPSHAC1000	AC1000 Cool Tube incl. ¼" quick connect fitting and belt
PPEPSHAC2000	HC2400 Hot/Cold Tube incl. ¼" quick connect fitting, belt and heat shield

# BLASTING AND PAINTING CLOTHING

## Overall

This Blasting Overall has been designed to enhance worker comfort and protect the worker from abrasive rebound.

The heavy duty blasting overalls are fitted with leather reinforced fronts of the sleeves and legs and have leather elbow pieces and a leather neck collar. The front can be closed by a double flap with velcro. The sleeves and legs can be closed with velcro straps.

## CE certified

- Leather protection pieces
- Double velcro closures
- Comfortable fit

## Leather blouse and gloves

Leather blasting blouse and gloves for optimum protection.

## Cotton clothing

Cotton comfort blouse, trouser and hood to provide protection from dust and spray.



### Leather/Cotton overalls

Part no.	Description
PPEBS40500S	LO-50, small
PPEBS405010M	LO-52, medium
PPEBS40520L	LO-54, large
PPEBS40530XL	LO-56, extra large
PPEBS40531XXL	LO-58, extra extra large
PPEBS405320	LO-60, extra extra extra large

### Leather Gloves

Part no.	Description
PPEGLC1	G-L/90 (pair)



## GX4 GAS DETECTION MONITOR

Toxic gases are one of the number one risks to employees working in industrial environments and yet some employers are not monitoring the breathing air their workers are using every day. Put the safety of yourself and your employees first with the GX4 Gas Monitor from RPB – an intelligent monitoring system which can detect up to four gases simultaneously.

Some toxic gases like carbon monoxide are completely invisible to the human senses but high level exposure can kill in a matter of minutes and even low level exposure can cause serious illness and long term health concerns. Early symptoms are often mistaken for flu, headaches or tiredness and are frequently ignored.

The GX4 can be easily mounted to the RPB Radex Airline Filter or to the wall and constantly monitors air supply for up to four different gases. The unit uses four pre-calibrated gas sensor cartridges that last for up to two years and can be easily removed and replaced as required. It is fitted with a 103 DBA staccato alarm and can also be connected to other external alarms or automatic shut off systems to make sure that workers are alerted if gases are approaching unsafe levels.

Readings are displayed in real time on the illuminated display and the unit also has a built in WIFI hotspot so it can be accessed via a laptop, tablet, phone or network. The unit keeps detailed records, logging data every five seconds which is useful for inspectors. It also keeps logs of any alarms that go off so that if it is ignored or silenced you'll still be able to see when it was triggered. It also monitors each gas cartridge and alerts the user when a replacement is needed.

### Features

- Monitor up to four gases simultaneously.
- Pre-calibrated gas sensors that last for up to two years.
- All electronics are sealed inside to prevent exposure to contamination and oil.
- All parts are available as spares.
- Clear hose allows you to monitor contamination.
- Robust power inlet.
- Push release air inlet.
- Cartridges can be easily removed and replaced.
- Strong nylon ABS case suitable for tough conditions.
- 103 DBA staccato alarm.
- Sturdy mounting bracket.
- Can be mounted to Radex Airline Filter or to the wall.
- Universal power options.
- Can be connected to external alarms if working remotely.
- Calibration kit available for quick and easy calibration check with no set points required.
- Pairs perfectly with RPB Nova 2000, RPB Nova 3, RPB Radex Filter and more.

**Please note: Unit is supplied with one pre-calibrated Carbon Monoxide sensor cartridge. Additional cartridges sold separately.**



World-leading Surface Preparation and Finishing Solutions

# Pipe Blasting and Coating



# MINI BLAST INTERNAL PIPE CLEANER

The Mini Blast Internal Pipe Cleaner is designed to blast-clean pipe ranging in size from ½" to 1¼" (13–32mm) I.D. The tool connects to an abrasive blast machine in place of a standard nozzle. In operation, the Mini Blast nozzle directs the air/abrasive mixture at a deflection tip. This tip causes the blast pattern to fan out into a wide, circular pattern, which cleans the inside of the pipe as the tool is passed through. Two adaptors are available to connect the tool to the nozzle holder.

The Mini Blast tool is made from the finest materials available. However, some of its internal wear parts are, of necessity, rather brittle, due to their extreme hardness. The tool should therefore be handled carefully to avoid dropping it or giving it a sharp blow.

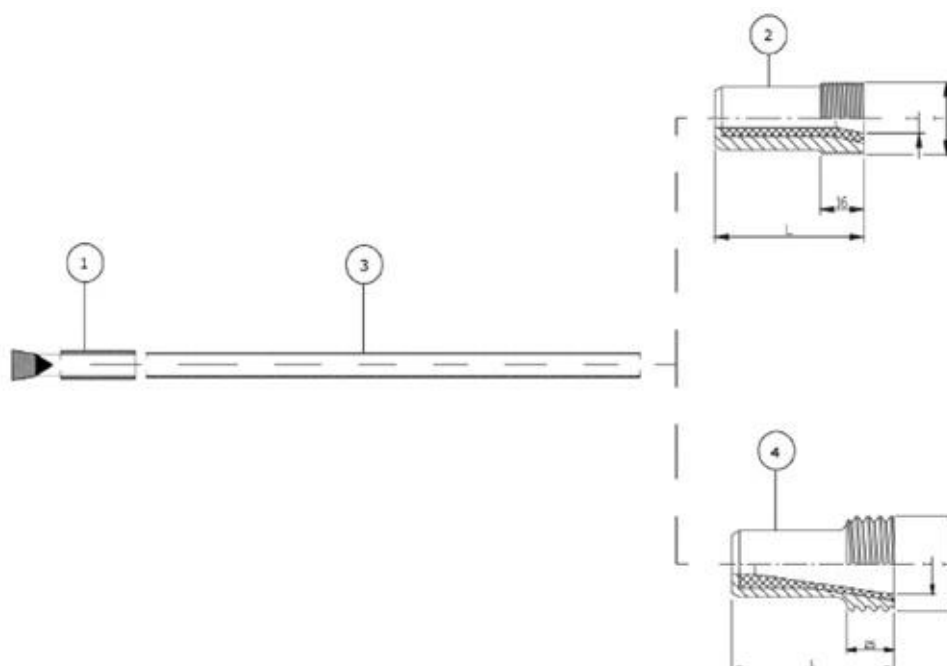


## MB Mini Blast Internal Pipe Cleaner – Assemblies

Part no.	Description
AB3000100	MB-1 Mini Blast – 250mm, incl. AMB-4
AB3000200	MB-2 Mini Blast – 500mm, incl. AMB-4
AB3000300	MB-3 Mini Blast – 750mm, incl. AMB-4
AB3000400	MB-4 Mini Blast – 1000mm, incl. AMB-4

## MB Mini Blast Internal Pipe Cleaner – Parts List

Item	Part no.	Description
01	AB3000500	Mini Blast Head TC Ø13mm
02	AB3000600	AMB-4 Adaptor M10 – fine 26mm thread
03	AB3000700	EMB-250 Extension pipe 250mm long
	AB3000800	EMB-500 Extension pipe 500mm long
	AB3000900	EMB-750 Extension pipe 750mm long
	AB3001200	EMB-1000 Extension pipe 1000mm long
04	AB3001100	AMB-6 Adaptor M10 – large 50mm thread



# CIRCLE BLASTER

The Circleblast Internal Pipe Blasters are designed to blast-clean pipes ranging in size from 1¼" to 12" (32 – 305mm) I.D. The tool connects to an abrasive blast machine in place of a standard nozzle. In operation, the Circleblast nozzle directs the air/abrasive mixture at a deflection tip. This tip causes the blast pattern to fan out into a wide, circular pattern, which cleans the inside of the pipe as the tool is passed through. Two centring devices are available to hold the tool in position during passes in different diameter pipe.



## Features and benefits

- Constant cleaning of internal surface.
- Cleaning with the highest speed possible.
- Saving on time and abrasives.
- Adjustable setup for the best cleaning speed.
- Easy handling and no down-time.
- Blast in only one drive through.
- Adjustable for all kind of abrasive.
- Very rigid construction.

Pipe diameter (mm)	Tool	Tool range (mm)	Centring device	Required nozzle	Air consumption (CFM)	Air consumption (m <sup>3</sup> /min)
1¼" – 3" (32 – 76mm)	CB-0	1¼"–3" (32–76mm)	-	-	400	11.3
3" – 12" (76mm – 305mm)	CB-1	3"–5"	CBC-1	AHBN-8	225	6.4
	CB-2	(76–127mm)		AHBN-10	400	11.3
	CB-1	5"–12"	CBC-2	AHBN-8	225	6.4
	CB-2	(127–305mm)		AHBN-10	400	11.3

## CB Circleblast assemblies

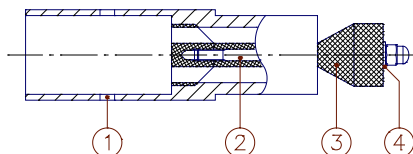
Part no.	Description
AB3002100	CB-0 Circleblast for direct mounting on blast hose with ½" I.D. (13 x 7mm) for pipes 1¼" to 3" (35–76mm) I.D. TC deflection tip
AB3002200	CB-1 Circleblast complete with: ½" nozzle HBN-8, CBC-1 centring collars, CBC-2 adjustable centring carriage
AB3002300	CB-2 Circleblast complete with: 5/8" nozzle HBN-10, CBC-1 centring collars, CBC-2 adjustable centring carriage



# CIRCLEBLAST INTERNAL PIPE BLASTERS

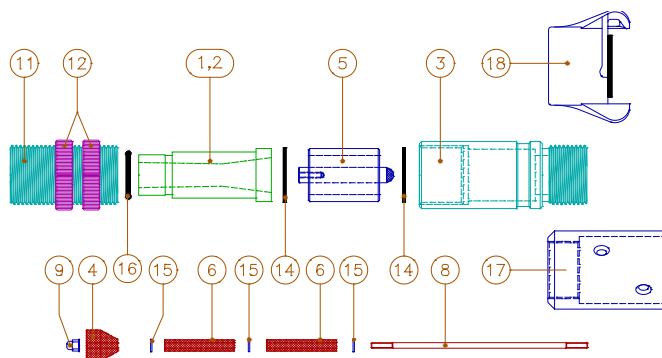
## CB-0 – Parts List

Item	Part no.	Description
01	AB3002500	Housing
02	AB3002600	Bolt
03	AB3016000	CB-110/1 Deflection tip TC
04	AB3028000	CB-122 Washer brass



## CB-1 and 2 – Parts List

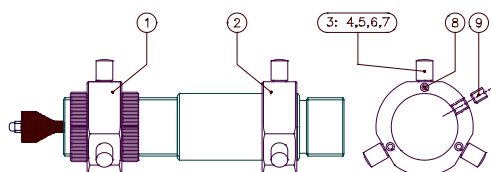
Item	Part no.	Description		
01	AB2112000	AHBN-8 1/2" (13mm) Nozzle TC		
02	AB2113000	AHBN-10 5/8" (16mm) Nozzle TC		
03	AB3015000	CB-111 Tool holder		
04	AB3016000	CB-110/1 Deflection tip TC	◇	1
05	AB3018000	CB-112/1 Stem support assembly TC	◇	1
06	AB3020000	CB-113/1 Throat sleeve TC	◇	2
08	AB3023000	CB-115 Throat rod	◇	1
09	AB3024000	CB-116 Tip holding nut	◇	1
11	AB3025000	CB-117 Protection sleeve threaded		
12	AB3026000	CB-118 Curled lock nut		
14	AB3027000	CB-119 Stem support gasket	◇	2
15	AB3028000	CB-122 Washer brass	◇	2
16	AB3029000	CB-123 O-ring	◇	1
17	AB2135000	CHE-2 Nozzle holder, aluminium		
18	AB2163000	CFT Cast iron quick coupling		



All (◇)-marked items are included in Circleblast Spare Parts kit (art.nr. 3022000) in quantities shown.

## Centring collars for Circleblast

Item	Part no.	Description
	AB3003300	CBC-1 Centring collars complete for pipes 3" to 5" (76–127mm) I.D. Includes collars and four six-button sets

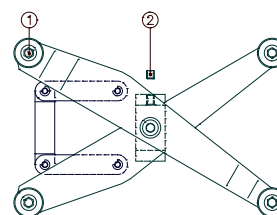


### Spare parts for CBC-1 centring collars

01	AB3004000	Front collar, cad-plate
02	AB3005000	Rear collar, cad-plate
03	AB3006000	Centring buttons 4 six-button sets
04	AB3007000	5/16" (8mm) long button for 3 1/2" (89mm) I.D.
05	AB3008000	9/16" (15mm) long button for 4" (102mm) I.D.
06	AB3009000	13/16" (20mm) long button for 4 1/2" (115mm) I.D.
07	AB3010000	18/16" (28mm) long button for 5" (127mm) I.D.
08	AB3010100	Bolt
09	AB3010200	Collar locking bolt

## Centring carriage for Circleblast

Item	Part no.	Description
	AB3011000	CBC-2 Centring collars complete for pipes 5" to 12" (127–305mm) I.D.



### Spare parts for CBC-1 centring collars

01	AB3012000	Wheel complete
02	AB3010200	Locking bolt

# SPINNERBLAST INTERNAL PIPE BLASTER

The Spinnerblast tool cleans the interior of pipes up to 12m long and ranging in size from 203mm (8") to 915mm (36") I.D. The tool connects to most abrasive blasting machines in place of a standard nozzle.

As the tool passes through the length of the pipe being cleaned, abrasive is ejected by two special nozzles mounted on a rotating head. Optimal rotating speed is controlled by the braking system. An adjustable centring carriage supports the tool through the pipe. The chart below shows the recommended centring legs, nozzle sizes and compressor capacities for different pipe diameters.



## Features and benefits

- Constant cleaning of internal surface.
- Cleaning with the highest speed possible.
- Saving on time and abrasives.
- Adjustable setup for the best cleaning speed.
- Easy handling and no down-time.
- Blast in only one drive through.
- Adjustable for all kind of abrasive.
- Very rigid construction.

Pipe diameter (mm)	Tool	Tool range (mm)	Centring device	Required nozzle	Air consumption (CFM)	Air consumption (m <sup>3</sup> /min)
8"–36"	SB-636-A	8"–10" (203–254mm)	SPB-19 use 120mm legs	2 x ASB-13	200	5.7
				2 x ASB-14	300	8.5
				2 x ASB-16	450	12.8
	SB-636-A	10"–15" (254–381mm)	SPB-19 use 190 mm legs	2 x ASB-15	300	8.5
SB-636-A	15"–23" (381–584mm)	SPB-19 use 290mm legs	2 x ASB-17	450	12.8	
SB-636-A	23"–36" (584–915mm)	SPB-19 use 460mm legs	2 x ASB-17	450	12.8	

Part no.	Description
AB3030000	SB-636-A Spinnerblast incl. SPB-19 carriage, excl. nozzles
AB3032000	SB-636-C Repair kit. Containing ◊-marked items in quantities overleaf

# SPINNERBLAST INTERNAL PIPE BLASTER

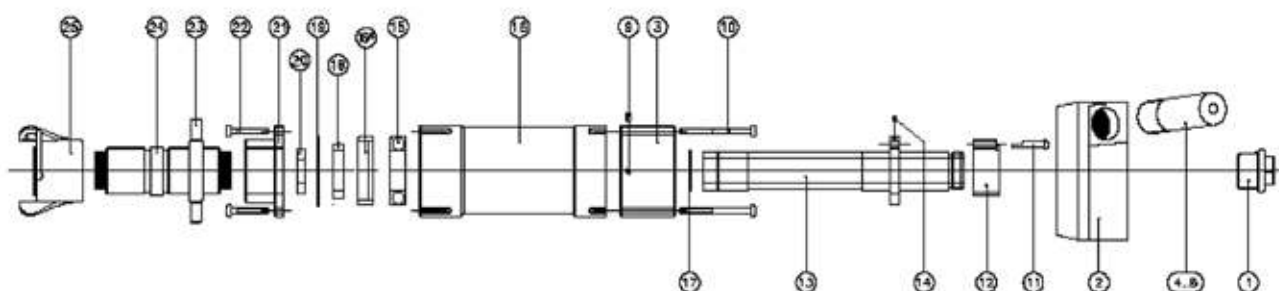
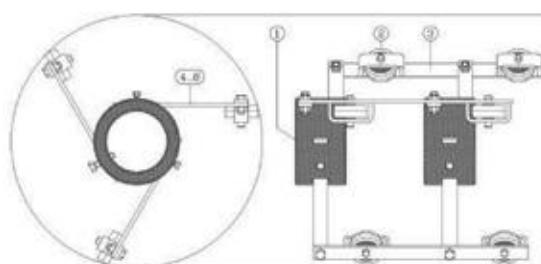
## SPB Spinnerblast Internal Pipe Blaster – Parts list

Item	Part no.	Description	
01	AB3033000	Pipe plug 1" (25mm)	◇ 4
02	AB3035000	Rotating nozzle head	◇ 1
03	AB3036000	Brake housing	
04	AB2107000	Nozzle TC – 6.0mm orifice, 49mm long	
05	AB2108000	Nozzle TC – 8.0mm orifice, 49mm long	
06	AB2109000	Nozzle TC – 8.0mm orifice, 80mm long	
07	AB2110000	Nozzle TC – 9.5mm orifice, 49mm long	
08	AB2111000	Nozzle TC – 9.5mm orifice, 103mm long	
09	AB3037000	Set screw M6 x 8mm	
10	AB3038000	Machine screw 65mm	
11	AB3039000	Locking pin	
12	AB3040000	Brake with lining	◇ 1
13	AB3041000	Tube	◇ 1
14	AB3043000	Set screw M5 x 6mm	
15	AB3044000	Double seal light bearing	◇ 2
16	AB3045100	Housing	
16A	AB3045200	Housing bearing seal	
17	AB3046000	Tube lock ring	◇ 2
18	AB3047000	Bearing seal	◇ 1
19	AB3048000	Leather dust seal	◇ 30
	AB3048100	Teflon dust seal	
20	AB3049000	Washer, tungsten carbide	◇ 2
21	AB3050000	End plate, rear	
22	AB3051000	Machine screw 35mm	
23	AB3052000	Locking nut for rear end plate	
24	AB3053000	Rubber lined nipple 1¼" (32mm)	◇ 2
25	AB2163000	CFT Quick coupling (cast iron)	

All (◇)-marked items are included in Spinnerblast spare parts kit (art.nr. 3032000) in quantities shown

## SPB Spinnerblast Carriage – Parts list

Item	Part no.	Description
	AB3055000	Adjustable centring carriage
01	AB3059000	Carriage collar
02	AB3056000	Carriage wheel
03	AB3057000	Arms with wheels
04	AB3058000	Set of centring legs
05	AB3060000	SPB-19/12 Centring leg 12cm
06	AB3061000	SPB-19/19 Centring leg 19cm
07	AB3062000	SPB-19/29 Centring leg 29cm
08	AB3063000	SPB-19/46 Centring leg 46cm
09	AB3063100	Collar locking screw





# JUMBO INTERNAL PIPE BLASTER

The Jumbo Internal Pipe Blaster tool cleans the interior of pipes up to 12m long and ranging in size from 890mm (35") to 1600mm (63") I.D. The tool connects to most abrasive blasting machines in place of a standard nozzle.

As the tool passes through the length of the pipe being cleaned, abrasive is ejected by two special nozzles mounted on a rotating head. Optimal rotating speed is controlled by the braking system. An adjustable centring carriage supports the tool through the pipe.

## Features and benefits

- Constant cleaning of internal surface.
- Cleaning with the highest speed possible.
- Saving on time and abrasives.
- Adjustable setup for the best cleaning speed.
- Easy handling and no down-time.
- Blast in only one drive through.
- Adjustable for all kind of abrasive.
- Very rigid construction.



Part no.	Description
AB3400000	JIPB-I Jumbo incl. carriage, excl. nozzles
AB3403400	JIPB-36 Repair kit. Containing ◊-marked items in quantities part list

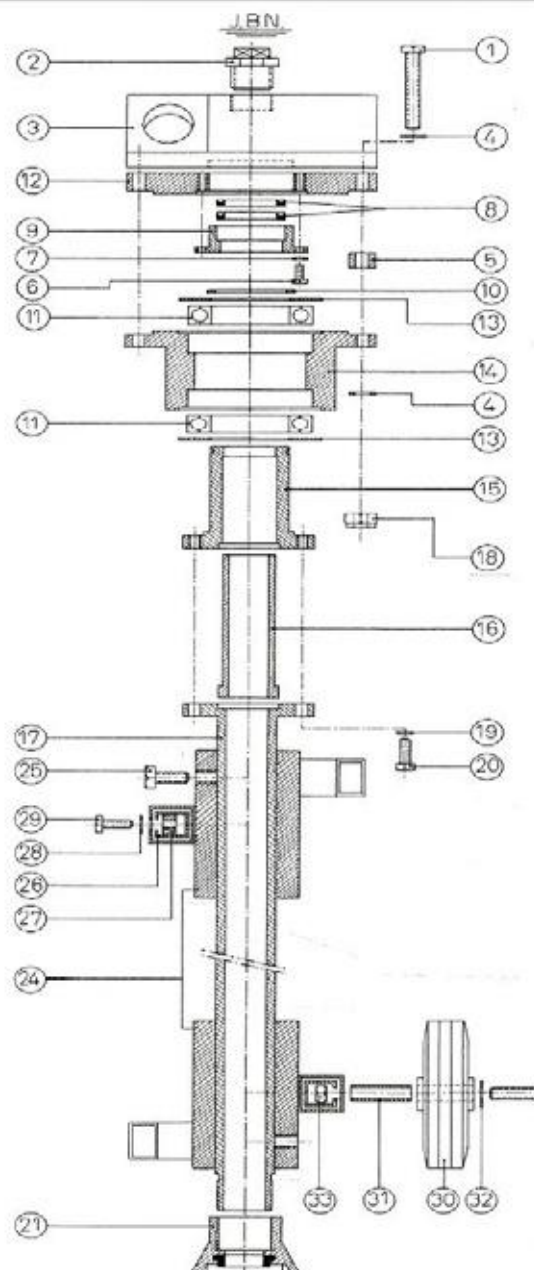
Jumbo Internal Pipe Blaster – nozzles	
Part no.	Description
AB2007000	ATSDX-4 Tungsten Carbide Long Venturi nozzle, 6.5mm orifice, length 135mm, 1¼" (32mm) inlet and fine thread
AB2008000	ATSDX-5 Tungsten Carbide Long Venturi nozzle, 8.0mm orifice, length 135mm, 1¼" (32mm) inlet and fine thread
AB2009000	ATSDX-6 Tungsten Carbide Long Venturi nozzle, 9.5mm orifice, length 135mm, 1¼" (32mm) inlet and fine thread

# JUMBO INTERNAL PIPE BLASTER

## Jumbo Internal Pipe Blaster - Parts list

Item	Part no.	Description
01	AB3400100	JIPB-1 Bolt M10 x 70
02	AB3400200	JIPB-2 Pipe plug
03	AB3400300	JIPB-3 Nozzle head
04	AB3400400	JIPB-4/32 Washer
05	AB3400500	JIPB-5 Distance ring
06	AB3400600	JIPB-6 Bolt M6 x 10
07	AB3400700	JIPB-7 Washer
08	AB3400800	JIPB-8 Bearing seal
09	AB3400900	JIPB-9 Adaptor seal
10	AB3401000	JIPB-10 Lock ring
11	AB3401100	JIPB-11 Bearing
12	AB3401200	JIPB-12 Flange housing
13	AB3401300	JIPB-13 Protection ring
14	AB3401400	JIPB-14 Housing (alu)
15	AB3401500	JIPB-15 Housing (steel)
16	AB3401600	JIPB-16 Bushing
17	AB3401700	JIPB-17 Tube with flange
18	AB3401800	JIPB-18/33 Bolt M10
19	AB3401900	JIPB-19/28 Washer M8
20	AB3402000	JIPB-20 Bolt M8 x 25
21	AB3402100	JIPB-21 Cast iron coupling
24	AB3402200	JIPB-24 Carriage collar
25	AB3402300	JIPB-25 Bolt M10 x 25
26	AB3402400	JIPB-26 Centring leg
27	AB3402500	JIPB-27 Clamp
28	AB3402600	JIPB-28/19 Washer M8
29	AB3402700	JIPB-29 Bolt
30	AB3402800	JIPB-30 Wheel Ø140 x 35 GL-15
31	AB3402900	JIPB-31 Guide bushing
32	AB3403000	JIPB-32 Washer
33	AB3403100	JIPB-33/18 Bolt M10
34	AB3403200	JIPB-34 Bolt M10 x 65
35	AB3403300	JIPB-35 Centring carriage, complete

All (◇)-marked items are included in 3403400 Jumbo Spare Parts kit



## PIPECOATER-I FOR 4" – 7" ID PIPES

PIPECOATER-I is designed to coat the inside of a pipe or tubing without the need to rotate the pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed. To obtain the best possible production, one person should operate the Control Gun while another person pulls the tool through the pipe or tubing.

The Airblast Eurospray Pipecoater provides an innovative and efficient solution for applying paint to the inside of a pipe, tubing or other cylindrical structure. With the Pipecoater, you can apply a uniform layer of paint at remarkable speed.

PIPECOATER-I tool is available in four packages to suit jobs with differing lengths of pipes: 2, 4, 6 or 12m.

Six sizes of spray tip are available, ranging from 0.018" to 0.043" to suit the specified coating.

PIPECOATER-I is developed for pipe or tubing ranging from 90mm to 180mm (4"–7") ID.

PIPECOATER-I can be connected to a suitable airless paint spray machine of maximum 45:1 ratio.

### Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.
- Unique gun assembly ensures precise control.
- Air-controlled centring carriage legs easily adjust for gradual pipe bends.



### Pipecoater-I Internal Pipecoater assemblies

Part no.	Description
<b>For pipes with ID of 90mm to 180mm (4"–7")</b>	
AB7100100	Pipecoater-I, for use up to 2m (6ft) long pipe incl: 3.0m (10ft) Air Control Hose 3.5m (11ft) Paint Spray Hose
AB7100300	Pipecoater-I, for use up to 4m (12ft) long pipe incl: 5.0m (16ft) Air Control Hose 5.5m (18ft) Paint Spray Hose
AB7100500	Pipecoater-I, for use up to 6m (20ft) long pipe incl: 10.0m (32ft) Air Control Hose 10.5m (34ft) Paint Spray Hose
AB7100700	Pipecoater-I, for use up to 12m (40ft) long pipe incl: 15.0m (48ft) Air Control Hose 16.0m (52ft) Paint Spray Hose
Delivery includes:	
• Paint Spray Tool with Centring Legs	
• Air Control Group and Gun	
• Air Control Hose	
• High Pressure Paint Hose	

## PIPECOATER-I FOR 4" – 7" ID PIPES

### Pipecoater-I hoses

AB7100900	Air Control Hose	3.0m	(10ft)
AB7101000	Air Control Hose	5.0m	(16ft)
AB7101100	Air Control Hose	10.0m	(32ft)
AB7101200	Paint Spray Hose	3.5m	(11ft)
AB7101300	Paint Spray Hose	5.5m	(18ft)
AB7101400	Paint Spray Hose	10.5m	(34ft)

### Pipecoater-I Flow control tips

AB7101500	Flow control tip 0.018" orifice
AB7101600	Flow control tip 0.021" orifice
AB7101700	Flow control tip 0.026" orifice
AB7101800	Flow control tip 0.031" orifice
AB7101900	Flow control tip 0.036" orifice
AB7102000	Flow control tip 0.043" orifice

### Pipecoater-I Gun assembly

AB7102100	Spray gun, incl. hose adaptor assembly
AB7102200	Air group for spray gun
AB7102300	Adapter for silver gun

### Pipecoater-I Repair kits and recommended spare parts

AB7112900	Wheel kit, Pipecoater-I includes 7112500, 7112600 and 7112700. (6 pcs. required)
AB7105000	O-ring set, Air Control Hose
AB7105100	O-ring set, Pipecoater-I
AB7111400	Strainer (2 pcs.)
AB7119500	Needle bearing
AB7118400	Paint tube
AB7118500	T-piece
	Flow control tips (sizes to be specified)

# PIPECOATER-II FOR 7" – 37" ID PIPES

PIPECOATER-II is designed to coat the inside of a pipe or tubing without the need to rotate the pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed. To obtain the best possible production, one person should operate the Control Gun while another person pulls the tool through the pipe or tubing.

The Airblast Eurospray Pipecoater provides an innovative and efficient solution for applying paint to the inside of a pipe, tubing or other cylindrical structure. With the Pipecoater, you can apply a uniform layer of paint at remarkable speed.

The Pipecoater II tool is available in four packages to suit jobs with differing lengths of pipes: 2, 4, 6 or 12m.

Six sizes of spray tip are available, ranging from 0.018" to 0.043" to suit the specified coating.

PIPECOATER-II is developed for pipe or tubing ranging from 180mm to 950mm (7"-37") ID.

PIPECOATER-II can be connected to a suitable airless paint spray machine of maximum 45:1 ratio.



## Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.
- Unique gun assembly ensures precise control.
- Air-controlled centring carriage legs easily adjust for gradual pipe bends.

### Pipecoater-II Internal pipecoater assemblies

Part no.	Description
<b>For pipes with ID of 180mm to 950mm (7"–37")</b>	
AB7100200	Pipecoater-II, for use up to 2m (6ft) long pipe incl: 3.0m (10ft) Air Control Hose 3.5m (11ft) Paint Spray Hose
AB7100400	Pipecoater-II, for use up to 4m (12ft) long pipe incl: 5.0m (16ft) Air Control Hose 5.5m (18ft) Paint Spray Hose
AB7100600	Pipecoater-II, for use up to 6m (20ft) long pipe incl: 10.0m (32ft) Air Control Hose 10.5m (34ft) Paint Spray Hose
AB7100800	Pipecoater-II, for use up to 12m (40ft) long pipe incl: 15.0m (48ft) Air Control Hose 16.0m (52ft) Paint Spray Hose
<b>Delivery includes:</b>	
• Paint Spray Tool with Centring Legs	
• Air Control Group and Gun	
• Air Control Hose	
• High Pressure Paint Hose	

# PIPECOATER-II FOR 7”–37” ID PIPES

## Pipecoater-II Hoses

AB7100900	Air Control Hose	3.0m	(10ft)
AB7101000	Air Control Hose	5.0m	(16ft)
AB7101100	Air Control Hose	10.0m	(32ft)
AB7101200	Paint Spray Hose	3.5m	(11ft)
AB7101300	Paint Spray Hose	5.5m	(18ft)
AB7101400	Paint Spray Hose	10.5m	(34ft)

## Pipecoater-I Flow Control Tips

AB7101500	Flow control tip 0.018” orifice
AB7101600	Flow control tip 0.021” orifice
AB7101700	Flow control tip 0.026” orifice
AB7101800	Flow control tip 0.031” orifice
AB7101900	Flow control tip 0.036” orifice
AB7102000	Flow control tip 0.043” orifice

## Pipecoater-II Gun Assembly

AB7102100	Spray gun, incl. hose adaptor assembly
AB7102200	Air group for spray gun
AB7102300	Adapter for silver gun

## Pipecoater-II Repair Kits and Recommended Spare Parts

AB7119200	Rotating head kit, Pipecoater-II includes 7114600, 7118000, 7114700 and 7114800
AB7119300	Wheel kit, Pipecoater-II includes 7117800, 7118000, 7118100, 7118200 and 7119000
AB7105000	O-ring set, Air Control Hose
AB7105200	O-ring set, Pipecoater-II
AB7111400	Strainer (2 pcs.)
AB7113600	Blade (3 pcs.)
AB7114000	Bearing
AB7113100	Ball bearing
	Flow control tips (sizes to be specified)

## PIPECOATER-III/125 FOR 3" – 5" ID PIPES

PIPECOATER-III/125 is designed to coat the inside of a pipe or tubing ranging from 76 to 125mm (3"–5") ID without the need to rotate the pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed.

PIPECOATER-III/125 tool can be connected to a suitable airless paint spray machine of maximum 45:1 ratio. The unit is connected to the end of a pipe lance and connected to the high pressure paint hose coming from the spray pump. An air hose is required to connect to the PIPECOATER-III/125. Once the PIPECOATER-III/125 is positioned within the pipe or tubing, regulate the paint and air flow to the correct pressure. The spray gun is triggered to begin the paint flow. The paint will be sprayed through a spin nozzle controlled by the air flow in a 360° spraying pattern.

To stop the PIPECOATER-III/125, release the spray gun trigger and shut off the air supply to the unit. For the best possible result, one person should operate the spray gun while another person pulls the tool through the pipe or tubing.

### Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.



### PIPECOATER-III/125 INTERNAL PIPECOATER ASSEMBLY

PIPECOATER-III range of economy models, developed for pipe or tubing ranging from 76mm to 900mm (3"–36") ID. The three models are executed with different centring devices which must be set to the right diameter manually.

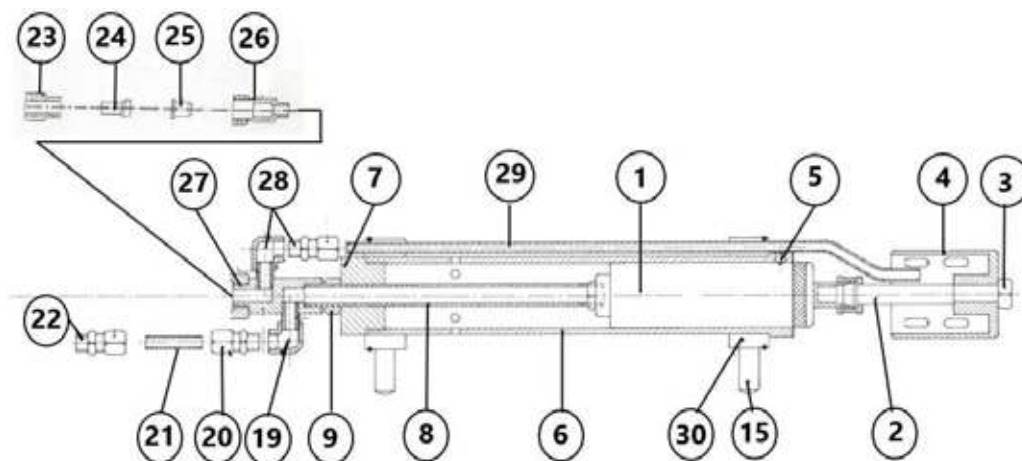
AB7301000 PIPECOATER-III/125 complete unit with centring carriage. For pipes with ID of 76mm to 125mm (3"–5")



# PIPECOATER-III/125 FOR 3"-5" ID PIPES

## Pipecoater-III/125 spare parts

Item	Part no.	Description
1	AB7310000	Air motor
2	AB7310100	Axle
3	AB7310200	Nut M10
4	AB7310300	Rotating head dia 54mm
5	AB7310400	Bolt M6 x 8
6	AB7310500	Aluminium housing
7	AB7310600	Rear end plate
8	AB7310700	Air tube 1/4" x 170mm
9	AB7310800	Nut 1/4" x 8mm
15	AB7315600	Centring button 4.5mm
	AB3007000	Centring button 8mm
	AB3008000	Centring button 15mm
	AB3009000	Centring button 20mm
	AB3010000	Centring button 28mm
16	AB3010100	Bolt M6
18	AB3010200	Locking bolt M10
19	AB7315700	Elbow 1/8" x 1/8" MF
20	AB7315800	Coupling 1/8" x dia 6mm
21	AB7315900	PU Hose dia 6-8 /15cm
22	AB7316000	Coupling 1/4" x dia 6mm
23	AB7314500	Filter holder
24	AB7314600	Tip filter 100 mesh (standard)
	AB7314650	Tip filter 60 mesh
25	AB7315000	Flow control tip 0.042" orifice (standard)
	AB7315100	Flow control tip 0.020" orifice
	AB7315200	Flow control tip 0.028" orifice
	AB7315300	Flow control tip 0.060" orifice
	AB7315400	Flow control tip 0.064" orifice
	AB7315500	Flow control tip 0.076" orifice
26	AB7314700	Tip holder
27	AB7316100	Inlet housing 1/8" x 1/4"
28	AB7316200	Elbow dia 6 - 1/8"
29	AB7316300	Paint tube dia 4 - dia 6
30	AB7316400	Centring collar dia 48mm



## PIPECOATER-III/300 FOR 5"–12" ID PIPES

PIPECOATER-III/300 is designed to coat the inside of a pipe or tubing ranging from 125 to 300mm (5"–12") ID without the need to rotate the pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed.

PIPECOATER-III/300 tool can be connected to a suitable airless paint spray machine of maximum of 45:1 ratio. The unit is connected to the end of a pipe lance and connected to the high pressure paint hose coming from the spray pump. An air hose is required to connect to the PIPECOATER-III/300. Once the PIPECOATER-III/300 is positioned within the pipe or tubing, regulate the paint and air flow to the correct pressure. The spray gun is triggered to begin the paint flow. The paint will be sprayed through a spin nozzle controlled by the air flow in a 360° spraying pattern.

To stop the PIPECOATER-III/300, release the spray gun trigger and shut off the air supply to the unit. For the best possible result, one person should operate the spray gun while another person pulls the tool through the pipe or tubing.



### Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.

### PIPECOATER-III/300 Internal Pipecoater assembly

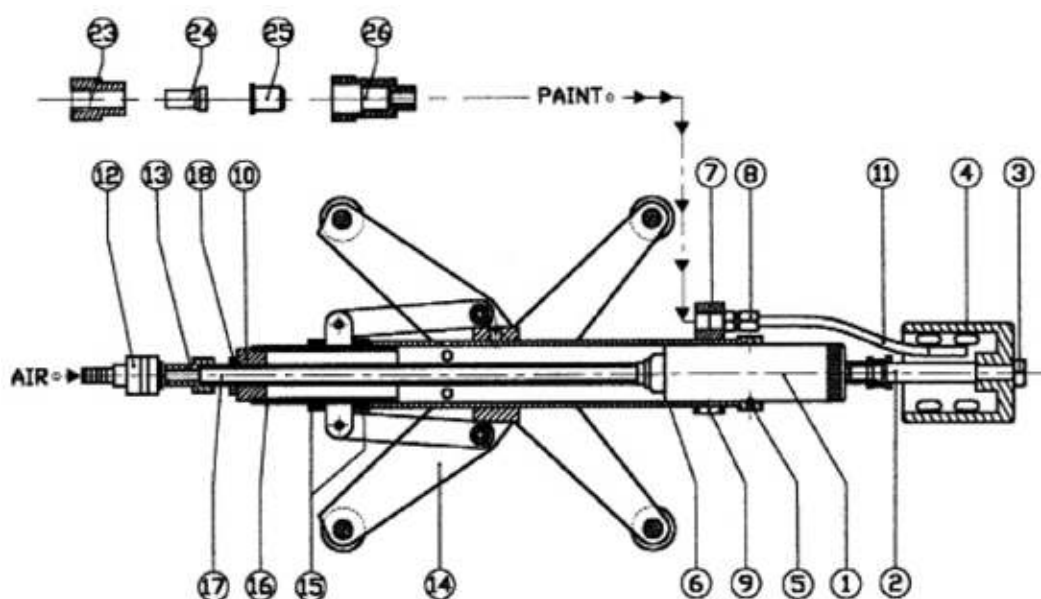
PIPECOATER-III range of economy models, developed for pipe or tubing ranging from 76mm to 900mm (3"–36") ID. The three models are executed with different centring devices which must be set to the right diameter manually.

AB7302000 PIPECOATER-III/300 complete unit with CBC-2 centring carriage. For pipes with ID of 125mm to 300mm (5"–12")

# PIPECAOTER-III/300 FOR 5"–12" ID PIPES

## Pipecoater-III/300 spare parts

Item	Part no.	Description
1	AB7310000	Air motor
2	AB7310100	Axle
3	AB7310200	Nut (M10)
4	AB7312000	Rotating head (diameter 69mm)
5	AB7310400	Bolt (M6 x 8)
6	AB7310500	Aluminium housing
7	AB7312100	Inlet housing
8	AB7312200	Coupling (1/4" x 8mm )
9	AB7315600	Bolt (M10 x 10)
10	AB7313700	Rear end plate
11	AB7312500	Paint tube
12	AB2176100	CCC-38/F Quick coupling
13	AB2178100	IF-14 Quick connect coupling
14	AB3011000	CBC - 2 Centring carriage
15	AB7314800	Lock nut
16	AB3025000	Protection sleeve threaded
17	AB7314000	Paint tube stainless steel
18	AB7314100	Nut
23	AB7314500	Filter holder
24	AB7314600	Tip filter
25	AB7315000	Flow control tip 0.042" orifice (standard)
	AB7315100	Flow control tip 0.020" orifice
	AB7315200	Flow control tip 0.028" orifice
	AB7315300	Flow control tip 0.060" orifice
	AB7315400	Flow control tip 0.064" orifice
	AB7315500	Flow control tip 0.076" orifice
26	AB7314700	Tip holder



## PIPECOATER-III/900 FOR 12”–36” ID PIPES

PIPECOATER-III/900 is designed to coat the inside of a pipe or tubing ranging from 300 to 900mm (12”–36”) ID without the need to rotate the pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed.

PIPECOATER-III/900 tool can be connected to a suitable airless paint spray machine of maximum of 45:1 ratio. The unit is connected to the end of a pipe lance and connected to the high pressure paint hose coming from the spray pump. An air hose is required to connect to the PIPECOATER-III/900. Once the PIPECOATER-III/900 is positioned within the pipe or tubing, regulate the paint and air flow to the correct pressure. The spray gun is triggered to begin the paint flow. The paint will be sprayed through a spin nozzle controlled by the air flow in a 360° spraying pattern.

To stop the PIPECOATER-III/900, release the spray gun trigger and shut off the air supply to the unit. For the best possible result, one person should operate the spray gun while another person pulls the tool through the pipe or tubing.



### Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.

#### PIPECOATER-III/900 Internal Pipecoater assembly

PIPECOATER-III range of economy models, developed for pipe or tubing ranging from 76mm to 900mm

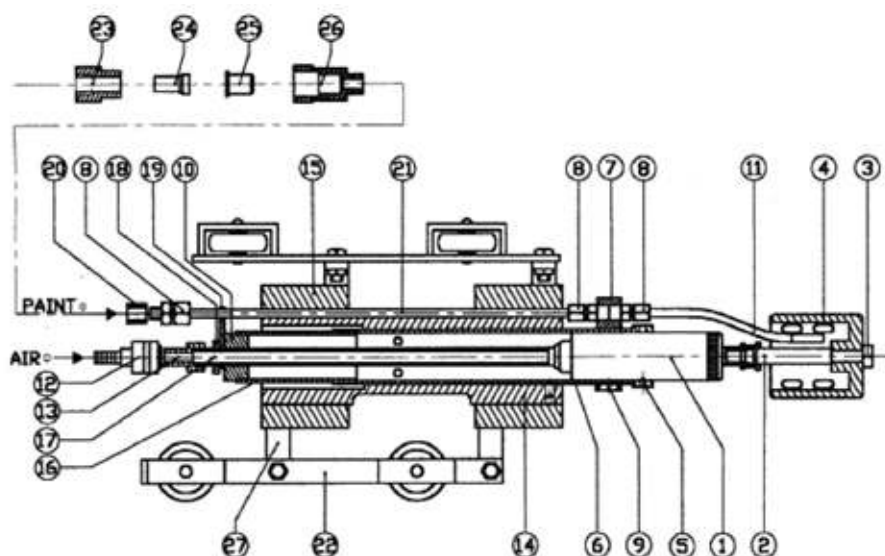
(3”–36”) ID. The three models are executed with different centring devices which must be set to the right diameter manually.

AB7303000 PIPECOATER-III/900 complete unit with centring carriage. For pipes with ID of 300mm to 900mm (12”–36”)

# PIPECOATER-III/900 FOR 12"-36" ID PIPES

## Pipecoater-III/900 spare parts

Item	Part no.	Description
1	AB7310000	Air motor
2	AB7310100	Axle
3	AB7310200	Nut (M10)
4	AB7312000	Rotating head (diameter 69mm)
5	AB7310400	Bolt (M6 x 8)
6	AB7310500	Aluminium housing
7	AB7312100	Inlet housing
8	AB7312200	Coupling (1/4" x 8mm)
9	AB7315600	Bolt (M10 x 10)
10	AB7313700	Rear end plate
11	AB7312500	Paint tube
12	AB2176100	CCC-38/F Quick coupling
13	AB2178100	IF-14 Quick connect coupling
14	AB7313000	Bushing
15	AB3059000	Centring collars
16	AB3025000	Protection sleeve threaded
17	AB7314000	Paint tube stainless steel
18	AB7314100	Nut
19	AB7314200	Tube holder
20	AB7314300	Nut
21	AB7314400	Paint tube, brass
22	AB3057000	Arm with wheels
23	AB7314500	Filter holder
24	AB7314600	Tip filter
25	AB7315000	Flow control tip 0.042" orifice (standard)
	AB7315100	Flow control tip 0.020" orifice
	AB7315200	Flow control tip 0.028" orifice
	AB7315300	Flow control tip 0.060" orifice
	AB7315400	Flow control tip 0.064" orifice
	AB7315500	Flow control tip 0.076" orifice
26	AB7314700	Tip holder
27	AB3058000	Set of centring legs (4 x 6 pieces)



## PIPECOATER-IV FOR 1" – 12" ID PIPES

PIPECOATER-IV tool is designed to coat the inside of a pipe or tubing ranging from 25 to 300mm (1"–12") ID without the need to rotate pipe or tubing and to apply an even paint film thickness throughout. Generally, any type of coating may be used in this tool that can be airless sprayed.

PIPECOATER-IV tool can be connected to a suitable airless paint spray machine of maximum of 45:1 ratio. The unit is connected to the end of a pipe lance and connected to the high pressure paint hose coming from the spray pump. An air hose is required to connect to the PIPECOATER-IV. Once the PIPECOATER-IV is positioned within the pipe or tubing, regulate the paint and air flow to the correct pressure. The spray gun is triggered to begin the paint flow. The paint will be sprayed through the round spray nozzle controlled by the air flow in a 360° spraying pattern.

To stop the PIPECOATER-IV, release the spray gun trigger and shut off the air supply to the unit. For the best possible result, one person should operate the spray gun while another person pulls the tool through the pipe or tubing.

### Advantages

- Efficiently handles wide range of coatings.
- Applies uniform layer at remarkable speed.
- No need to rotate the pipe or tubing.



### PIPECOATER-IV Internal Pipecoater assembly

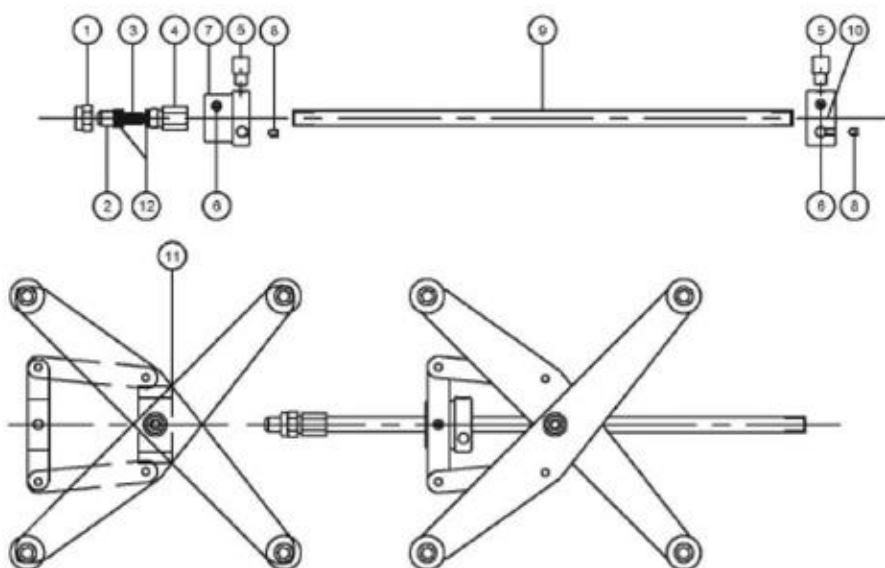
AB7304001 PIPECOATER-IV – bare – including TNSSTC 6 tip (1.07mm) assy and AB-SS 100 filter (parts 1–4, 6–10 + 12)

Optional with centring collars for pipes with ID: 76–125mm (3" to 5") and with 125–300mm (5" to 12")

# PIPECOATER-IV:1"-12"

## PIPECOATER-IV spare parts

Item	Part no.	Description
1	AB7304008	Tip nut SS
2	AB7304017	TNSSTC 0.80 spray tip
	AB7304018	TNSSTC 0.90 spray tip
	AB7304019	TNSSTC 1 spray tip
	AB7304020	TNSSTC 1.5 spray tip
	AB7304021	TNSSTC 2 spray tip
	AB7304022	TNSSTC 3 spray tip
	AB7304023	TNSSTC 4 spray tip
	AB7304024	TNSSTC 6 spray tip
	AB7304025	TNSSTC 8 spray tip
	AB7304026	TNSSTC 9 spray tip
	AB7304027	TNSSTC 10 spray tip
	AB7304028	TNSSTC 12 spray tip
	AB7304029	TNSSTC 14 spray tip
	AB7304030	TNSSTC 15 spray tip
	AB7304031	TNSSTC 16 spray tip
	AB7304032	TNSSTC 18 spray tip
	AB7304033	TNSSTC 20 spray tip
	AB7304034	TNSSTC 22 spray tip
AB7304035	TNSSTC 24 spray tip	
AB7304036	TNSSTC 26 spray tip	
3	AB7030414	Tip filter AB-SS 50
	AB7304015	Tip filter AB-SS 100
	AB7304009	Tip filter AB-SS 200
4	AB7304003	Housing SS
5	AB7304005	Centring device 2" to 5"
6-10	AB7304010	Pipecoater, bare
11	AB7304006	Centring carriage 5" to 12"
12	AB7304007	Nylon washers (set of 2)





# SWS SEMI-AUTOMATIC WINCH SYSTEM

The Airblast Eurospray semi-automatic winch system is specially developed for our Internal Pipe Cleaning Equipment such as the Circleblast, Spinnerblast and Jumboblast as well as for Pipe Coating Equipment such as the Pipecoater-III/125/300/900.

This machine is designed with a PLC controlled hoisting system to pull at the blast hose with an adjustable constant speed to clean the inside of pipes. The speed can be adjusted from almost zero to 3m/minute or more.

The Airblast Eurospray Winch system can be produced for all kinds of power supplies: 230VAC 1 phase, 400V AC 3phases, 12VDC or 24VDC.

The travel speed of the Pipe Cleaners inside the pipe is operated and controlled by the control box which is mounted on the rigid frame. The control panel features the on/off switch as well as the potential meter for the speed control which is adjustable from 0 to 100%. The semi-automatic winch system is made with high grade components to withstand the extreme environment of open blast cleaning, and has protection class IP55.



## Advantages

- Constant cleaning of internal surface.
- Cleaning with the highest speed possible.
- Saving on time and abrasives.
- Adjustable setup for the best cleaning speed.
- Easy handling and no down-time.
- Blast in only one drive through.
- Adjustable for all kinds of abrasive.
- Very rigid construction.
- Suitable for all kinds of pipe internal diameters.
- Semi-automatic, one operator can handle more machines or do other work.

### SWS Semi-automatic Winch System

Part no.	Description
AB8968001	Winch System - 5m/min
AB8968003	Winch System - 10m/min
AB8969004	Winch System - 15m/min

World-leading Surface Preparation and Finishing Solutions

# Dust-Free Blasting



# EDUCTOMATIC PORTABLE DUSTFREE VACUUM BLASTER

The Eductomatic is a light-weight, portable abrasive blasting tool with an integral abrasive recovery system. During blasting, abrasive is continually recycled, while dust and other debris is collected in a slip-on dust bag. Interchangeable adapter boots for level surfaces, corners, etc. fit over the swivel blast head to ensure efficient recovery on any surface.

## Advantages

- Constant cleaning of internal surface.
- Cleaning with the highest speed possible.
- Saving on time and abrasives.
- Adjustable setup for the best cleaning speed.
- Easy handling and no down-time.
- Blast in only one drive through.
- Adjustable for all kind of abrasive.
- Very rigid construction.
- Suitable for all kind of pipe internal diameters.
- Semi-automatic, one operator can handle more machines or do other work.



### Eductomatic assembly

Part no.	Description
AB3091000	Eductomatic includes attachment set with:
	- round brush
	- angle brush
	- master adaptor
	- 2" (50mm) discharge hose
	- plywood carry case

### Eductomatic separate attachments

Item	Part no.	Description
A	AB3092000	AE-2090 Edge attachment
B	AB3093000	AE-2091 Serrated attachment
	AB3093100	AE-2091-1 Round brush (not shown)
C	AB3094000	AE-2092 Master adaptor
D	AB3095000	AE-2093 Angle attachment
	AB3095100	AE-2093-1 Angle brush (not shown)
E	AB3096000	AE-2094 Flat lip attachment
F	AB3097000	AE-2095 Blank end

# EDUCTOMATIC PORTABLE DUSTFREE VACUUM BLASTER

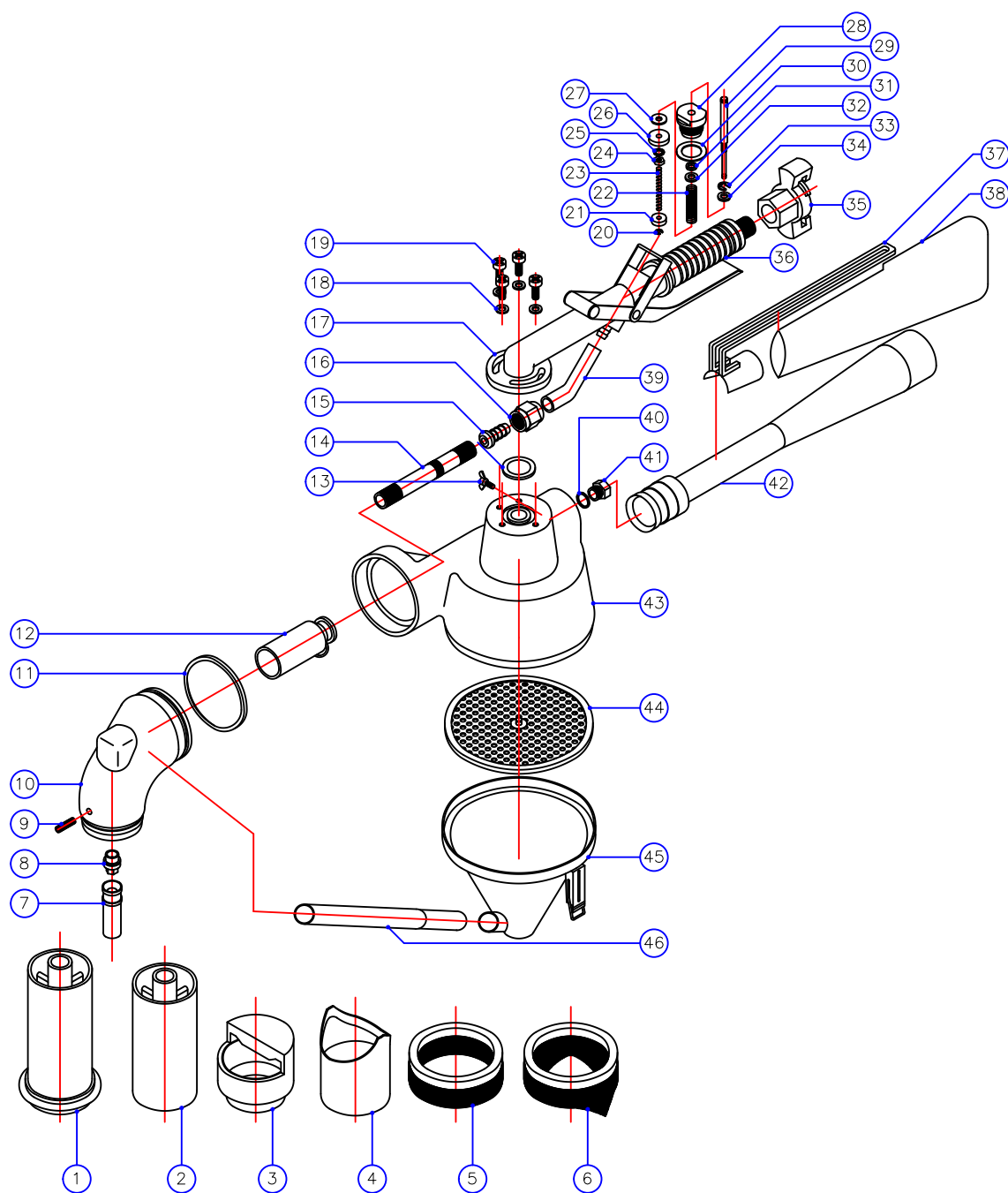
## Eductomatic spare parts

Item	Part no.	Description
01	AB3098000	AE-2001 Blast head
02	AB3099000	AE-2002 Standard adaptor
03	AB3100000	AE-2004 3/8" (9mm) nozzle – TC
04	AB3102000	AE-2006 Blast jet
05	AB3103000	AE-2007 Jet gasket
06	AB3103100	AE-2008 Valve assembly
07	AB3104000	AE-2005 Thumb screw
08	AB3105000	AE-2011 Blast head nipple 3/8" x 1/4" (9 x 108mm)
09	AB3106000	AE-2012 Swivel connector
10	AB3107000	AE-2013 O-ring
11	AB3108000	AE-2014 Main body
12	AB3109000	AE-2016 Abrasive hose
13	AB3110000	AE-2018 Thumb screw
14	AB3110500	AE-2019 Baffle washer
15	AB3111000	AE-2020 Hose clamp
16	AB3112000	AE-2021 Air hose
17	AB3112500	AE-2021-1 Spring for air hose
18	AB3113000	AE-2022 Suction jet
19	AB3114000	AE-2068-1 Screen assembly
20	AB3115000	AE-2023 Baffle (plastic only)
21	AB3344000	AE-2027 Locking device
22	AB3116000	AE-2068 Screen
23	AB3117000	AE-2030 Screen gasket
24	AB3118000	AE-2069 Abrasive container w/lock and hose
25	AB3119000	AE-2035 Dust bag
26	AB3120000	AE-2032-1 Ejector pipe
27	AB3120100	AE-2032-1 Dust bag holder
28	AB3121000	AE-2042 Valve body
29	AB3122000	AE-2036 O-ring

## Eductomatic spare parts

Item	Part no.	Description
30	AB3122100	AE-2038 Screw
31	AB3122200	AE-2039 Washer
32	AB3122800	AE-2043 Handle pin
33	AB3122900	AE-2044 Snap ring
34	AB3123000	AE-2045 Valve bushing
35	AB3124000	AE-2046 Valve bushing gasket
36	AB3125000	AE-2047 O-ring (neoprene)
37	AB3126000	AE-2048 Washer
38	AB3127000	AE-2049 Snap ring
39	AB3128000	AE-2050 Primary valve spring
40	AB3129000	AE-2051 Valve stem
41	AB3130000	AE-2052 Primary valve seat
42	AB3131000	AE-2053 Guide washer brass
43	AB3132000	AE-2054 Hex nut
44	AB3133000	AE-2055 Washer brass
45	AB3134000	AE-2056 Second valve spring
46	AB3135000	AE-2057 Second valve seat
47	AB3137000	AE-2059 Washer - brass
48	AB3138000	AE-2060 Snap ring
49	AB3140000	AE-2061 Pipe nipple
50	AB3141000	AE-2083 Rubber tube
51	AB3142000	AE-2065 Valve handle assembly
52	AB3143000	AE-2070 Swivel nut assembly
53	AB2162900	KIG-12 Coupling with F thread
54	AB2164000	CQG-0 Rubber gasket
55	AB2168400	SKG-19 Coupling w/hose barb 3/4"
56	AB2168200	SKG-13 Coupling w/hose barb 1/2"
57	AB2172300	HS-32 Hose clamp
58	AB3147000	AE-2120 Plywood carrycase

# EDUCTOMATIC PORTABLE DUSTFREE VACUUM BLASTER



# AB-1020 EP DUST FREE VACUUM BLAST MACHINE

This compact electric-pneumatic driven injection vacuum blasting machine with an average blasting pattern of 16mm width, is excellent to apply for blast cleaning weld seams, spot blasting of smaller areas, inspection and repair of engines and machinery overhaul and bodywork on vehicles.

## Features

- "Stand alone" unit includes automatic dust extraction and abrasive recycling system.
- Quickly interchangeable blast head fittings to blast different surface shapes.
- Fully pneumatic.
- Allows blasting from 3–6 bar.
- Maximum hose length of 5m.
- Easy injection blast principle.

## Benefits

- Totally dust-free environmentally friendly blasting.
- Other job site operations can be conducted close to the blasting area.
- Zero dust contamination on the job site.
- Many common shapes can be blasted with ease.
- Low operation cost due to the use of recyclable abrasive.
- Flexible and versatile.

## Applications:

- Cleaning of paint work
- Removal of floor coatings
- Roughening of various surfaces
- Cleaning of welds
- Decorative blasting of glass
- Cleaning and roughening of marble, granite and stone



## Technical specifications AB1020

	Electrical pneumatic
Blast media capacity (ltr)	9
Max. hose length (m)	5
Empty weight (kg)	25
Dimensions in cm. (W x L x H)	41 x 53 x 93
Max. working pressure (bar)	6
Max. air consumption (ltr/min.)	480
Electric power (Watt)	1000
Electric current (Volts)	230
Average width of blast pattern (mm)	15–17
Max. abrasive size (mm)	1.0 (18 mesh)



# AB1030 EP/PN DUST FREE VACUUM BLAST MACHINE

All Airblast Eurospray vacuum blasting machines are designed to provide closed-system blasting by making the blasthead a small "containment structure". This speeds the job along, whether you are doing large-scale cleaning, or just spot blasting.

The removed coating and corrosion, plus the spent abrasives, are all deposited into a closed waste compartment. The air is filtered before it's exhausted. So the entire operation is virtually dust free and safe for your crew and the environment.

The 1030 model is the most portable model in the range of Airblast Eurospray Vacuum Blasting units. It is very well suited for cleaning small areas, and for weld preparation.

Rather than using a pressure blast vessel, the blast media is "lifted" from the machine by a vacuum generated at the blasthead, blasted onto the surface being cleaned and then vacuumed back into the unit for dust removal and reuse.

The recovery vacuum generator for this model is available in a pneumatic as well as an electric execution. The electric powered model is used in situations where the available compressed air source is limited.



## Applications:

- Cleaning of paint work
- Removal of floor coatings
- Roughening of various surfaces
- Cleaning of welds
- Decorative blasting of glass
- Cleaning and roughening of marble, granite and stone

## Technical specifications AB1030

	Electrical pneumatic	Pneumatic
Blast media capacity (ltr)	17	17
Max. hose length (m)	5	5
Empty weight (kg)	34	34
Dimensions in cm (W x L x H)	41 x 53 x 114	41 x 53 x 132
Max. working pressure (bar)	6	7
Recommended compressor size (ltr/min.)	1.000	2.300
Electric power (Watt)	1.700	-
Electric current (Volts)	220/240	-
Average width of blast pattern (mm)	20-22	20-22
Max. abrasive size (mm)	1 (18 mesh)	1 (18 mesh)

## Vacuum blasting machine AB1030 EP/PN (suction system) – Delivery includes:

- The complete blasting unit
- 5m blast hose set consisting of a blast gun with 10mm BC blast nozzle
- Grit supply hose
- 2" vacuum hose
- Air connector
- 5m of electricity cable incl. plug (230V) for the EP version
- 3 standard brushes (brush flat, brush 90° inner corner and brush 90° outer corner)
- Operator's manual
- Export packaging

## Machine options and accessories:

Pneumatic filter cleaning system. Beside the standard flat and corner brushes, special shaped brushes are available.



# AB-1050 EP/EN DUST FREE VACUUM BLAST MACHINE

This fully pneumatically driven injection blasting machine with an average blasting pattern of 28–32mm width is similar to the electric-pneumatic version, often used for blasting: heavier weld seams, grit blasting axes and cylinder shafts, larger machine parts before inspection and repair, shipbuilding, railway industry and maintenance, engines and engine overhaul, bodywork of vehicles and trailers, container overhaul, and storage tank and vessel construction.

Due to the absence of necessity of an electric power supply, this machine is ideally suited for mobile applications on location 'in the field', minor repair work on larger projects and removing graffiti. Available in fully pneumatic and electro-pneumatic version.

## Features

- Stand alone unit includes automatic dust extraction and abrasive recycling system.
- Quickly interchangeable blast head fittings to blast different surface shapes.
- Fully pneumatic.
- Allows blasting from low to high pressure (1–7bar).
- Maximum hose length of 5m.
- Can be incorporated into an automatic on-line blasting process.
- Easy injection blast principle.

## Benefits

- Totally dust free environmentally friendly blasting.
- Other job site operations can be conducted close to the blasting area.
- Zero dust contamination on the job site.
- Many common shapes can be blasted with ease.
- Low operation cost due to the use of recyclable abrasive.
- Flexible and versatile.



	Abrasive type	Obtained surface quality	Average production capacity per hour
<b>Steel Surface</b>			
Corroded steel, shot primer, light coatings and millscale	Aluminium oxide, garnet	SA 2½ (SP10)	1.2–1.5m <sup>2</sup> /hr
Heavily corroded steel, heavy chlorinated rubber coating	Aluminium oxide, garnet	SA 2½ (SP10)	0.5–1.0m <sup>2</sup> /hr
Steel weld seams	Aluminium oxide, garnet	SA 2½ (SP10)	50–60m/hr
Stainless steel weld seams (decolourisation)	Glass beads	Polishing	40–50m
<b>Concrete Surface</b>			
Bricks, natural stones. Cement film, light coating or graffiti removal	Aluminium oxide, olivine sand	Cleaning	1.5–2m <sup>2</sup> /hr
Removal of heavy coatings	Aluminium oxide, garnet	Removal of paint layer	0.5–2m <sup>2</sup> /hr
Cleaning without damaging	Walnut shell, olivine sand	Cleaning	1.0–2m <sup>2</sup> /hr
All mentioned values are averages and may vary due to surface conditions, type of abrasive, abrasive quality, machine use and experiences of the operator. Do not use non recyclable abrasive or sand.			

# AB-1050 EP/EN DUST FREE VACUUM BLAST MACHINE

Technical specifications AB-1050		
	Electrical pneumatic	Pneumatic
Blast media capacity (ltr)	28	28
Max. hose length (m)	5	5
Empty weight (kg)	70	68
Dimensions in mm (W x L x H)	530 x 610 x 1320	530 x 610 x 1400
Max. working pressure (bar)	7	7
Electric power (kW)	3.000	-
Electric current (Volts)	230	-
Recommended compressor size (ltr/min)	1.600	3.500
Average width blast pattern (mm)	28/32	28/32
Max. abrasive size (mm)	1.2	1.2

## Vacuum Blasting Machine AB-1050

### Delivery includes:

- The complete blasting unit
- 5m blast hose set consisting of a blast gun with 12mm BC blast nozzle
- Grit supply hose
- 2" vacuum hose
- Air connector
- 3 standard brushes (brush flat, brush 90° inner corner and brush 90° outer corner)
- Operator's manual in English
- Export packaging

### Machine options and accessories:

Pneumatic filter cleaning system. Beside the standard flat and corner brushes there are special shaped brushes available.

# AB-1070 EP/EN DUST FREE VACUUM BLAST MACHINE

The AB-1070 vacuum blast machine is an environmentally friendly dust free blasting solution which is easy to use, versatile and powerful. The use of steel abrasive provides cost effective, efficient and powerful blasting as well as close control of the surface preparation.

Easily inter-changeable blast head fittings allow a variety of surfaces to be blasted including: flat, inside and outside corners, small and large diameter pipes etc. Additional accessories are available for specific applications such as to blast large horizontal surfaces or the edges of steel plates. As the process is safe and dust free other production processes can be carried out close to the blasting operation.

## Features

- Stand alone unit includes automatic dust extraction and abrasive recycling system.
- Quickly interchangeable blast head fittings to blast different surface shapes.
- Fully pneumatic.
- Allows blasting from low to high pressure (1–8bar).
- Maximum hose length of 35m.
- Can be incorporated into an automatic online blasting process.

## Benefits

- Totally dust free environmentally friendly blasting
- Other job site operations can be conducted close to the blasting area
- Zero dust contamination on the job site
- Many common shapes can be blasted with ease
- Low operation cost due to the use of steel abrasive
- Flexible and versatile



Surface	Abrasive type	Abrasive size	Obtained surface quality	Average production capacity per hour
<b>Steel: millscale, coatings and or corrosion</b>	Ali oxide Chilled iron Steel grit	0.8–1.2mm G17 / G24	SA 2½ (SP10)	4–9m <sup>2</sup>
<b>Steel: heavy corrosion</b>	Ali oxide Chilled iron Steel grit	0.8–1.2mm G17 / G24	SA 2½ (SP10)	3–8m <sup>2</sup>
<b>Steel: blasted with shot primer</b>	Ali oxide Chilled iron Steel grit	0.8–1.2mm G17 / G24	SA 2½ (SP10)	5–9m <sup>2</sup>
<b>Steel: chlorinated rubber coating</b>	Ali oxide Chilled iron Steel grit	0.8–1.2mm G17 / G24	SA 2½ (SP10)	1.5–5m <sup>2</sup>
<b>Weld seams: steel</b>	Ali oxide Chilled iron Steel grit	0.8–1.2mm G17 / G24	SA 2½ (SP10)	80–120m/hr (50mm width)

All mentioned values are averages and may vary due to surface conditions, abrasive quality, machine use and experiences of the operator.

# AB-1070 EP/EN DUST FREE VACUUM BLAST MACHINE

## Technical specifications

	Pneumatic Single Chamber
Blast media capacity (ltr)	40 (24)
Maximum hose length (m)	25–35
Empty weight (kg)	525 (500)
Dimensions (cm) W x L x H	1570 x 750 x 1860
Maximum working pressure (bar)	1.5–8.0
Recommended compressor size (ltr/min)	3500–10000
Average width blast pattern (mm)	50/75
Maximum abrasive size (mm)	1.5

## Includes

- 15m hose set consisting of a blast hose, abrasive recovery hose, a double line control hose with trigger and all necessary hose connectors.
- Hardened aluminium blast head, a blast head inner tube flat, a blast head inner tube 90 and a 6.4mm boron carbide nozzle.
- Set of standard brushes (brush flat, brush 90° inner corner and brush 90° outer corner).
- Adjustable venture and pressure gauge for air driven version.
- Operators manual in English.
- Warranty.

## Optional Accessories

- Extension blast hose set of 10m, 15m or 20m
- Large blast head including Boron carbide Nozzle
- Floor trolley for large blast head

## WHY AIRBLAST EUROSPRAY?

We're one of the leading global voices in the design, manufacture and installation of industrial surface preparation and finishing products and facilities.

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# AQUASTORM – WET ABRASIVE BLASTING SYSTEM

The Aquastorm system allows blasting at very low and very high pressure to accommodate changes in the surface being cleaned/blasted. In contrast to other blasting procedures, this is fully adjustable allowing the operator to change from heavy blasting to gentle cleaning as the surface dictates.

The Aquastorm system handles industrial maintenance applications, such as cleaning or removing layers of concrete, removal of paint by layers, total coating removal to specified degree of cleanliness (white metal etc.) or removal of oxidised layers from steel, with ease. The system is also very effective in sensitive applications such as the petrochemical industry, where sparks or static electricity are prohibitive (by coating each particle of the blast medium with water, the system effectively eliminates this concern).

Another positive effect on ecology and economy, is a 95% dust reduction when using Aquastorm systems. This allows minimised or no containment, and no dust collectors or negative pressure. Further it allows complete and easy access around the entire structure being cleaned/blasted. There is also no need for air supplied hoods, meaning greater operator comfort, as well as public perception of the work being performed.

The additional advantage of giving the operator full control of the machine at the blast nozzle by remote control allows for less laborers.

The Aquastorm system is available in a fully pneumatic execution as well as an electric/ pneumatic version.



## Advantages:

- Very low and very high blast pressures possible meaning any substrate can be blasted .
- High coverage.
- Consumption of blasting media reduced by up to 60% and very low consumption of water.
- Minimised or no containment required.
- Long service life of all parts subject to wear.
- Dry blasting media not required (saves storage costs).
- Multiple use of blasting media is possible.
- Can blast up to 250m (800ft) in height.
- Rust inhibitor injection available.

## Delivery includes:

- the complete blasting unit
- ATSDX 6/50 nozzle
- 20m of 32 x 8 blast hose
- remote control system
- deadman handle
- 20m twin hose
- operator's manual
- export packaging

Other configurations available on request.

The Aquastorm can be used in combination with a High Water Pressure (HWP) unit. This system is called the Turbojet system which is a high performance system.

Technical specifications Aquastorm	AquaStorm 100	AquaStorm 200
Blast media capacity (ltr)	100	200
Blast hose connection (mm)	32	32
Empty weight (kg)	140	185
Dimensions in cm. (W x L x H)	1190 x 720 x 850	1380 x 890 x 910
Control pressure (bar)	2–10	2–10
Required air input pressure (min – max in bar)	4.0–8.0	4.0–8.0
Electric connection (Volt/Watt)	12/1.2	12/1.2
Air connection (mm)	38	38
Consumption of blast media incl. ± 25% of water (min – max in ltr/min)		1.0–8.0

\*All mentioned values are averages and may vary due to surface conditions, machine use and experiences of the operator.

# AQUABLAST WETBLAST ATTACHMENT

The Aquablast Wetblast Attachment can be fitted on the nozzle outlet and provides a water “envelope” around the air/media flow which controls the dust levels.

The Aquablast Wetblast Attachment is used in combination with standard tap water or water pumps.

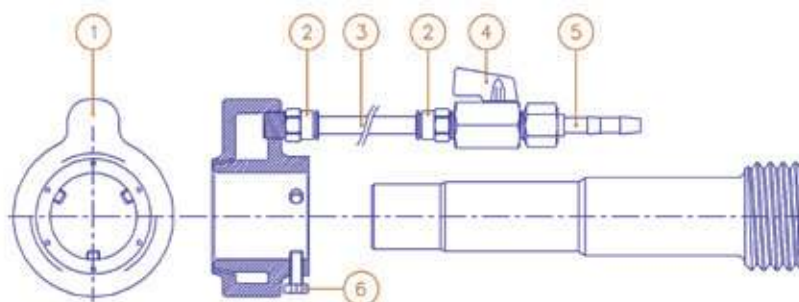
This simple tool fits to most nozzles (not included). The attachment is delivered complete with stop and regulator valve.



Part no.	Description
AB5031000	Aquablast – Wetblast attachment, complete Includes water jacket, shut-off valve, flexible hose and petcock
AB5031100	Aquablast – Wetblast attachment, bare Exclusive of petcock and hose

Spare parts Aquablast Wetblast attachment			
Item	Part no.	Description	Quantity required
1	AB5031500	Water jacket	1
2	AB5031600	Coupling, ¼" x 8 mm	2
3	AB5031700	Water hose	1
4	AB1152000	Ball valve ¼"	1
5	AB2178900	Hose barb incl. nut	1
6	AB5031800	Bolt	3



# ULTRA HIGH PRESSURE WATER JETTING

We offer a full range of High Pressure (HP) and Ultra High Pressure (UHP) plunger pumps and water jetting equipment. Every pump and unit we supply is tested and certificated for performance prior to despatch.

Our range of pumps operates at pressures from 70 to 2750bar and flow rates up to 773lpm with ratings from 30 to 375kW (40 to 500hp). The pumps are ruggedly constructed and produced in nine frame sizes, each including a range of plunger sizes. This allows selection of the ideal pump for the job. Close-coupled reduction gearbox drives are available, with a choice of gear ratio to suit most prime mover speeds.

Also available are SAE engine adaptor housings allowing the pumps to be flange mounted to diesel engines, ensuring perfect alignment and making installation simple. The power end of the pump features cast iron casings with splash or pressure lubrication and oil cooling, according to the application. Pump heads are manufactured from stainless steel as standard. The in-line valve arrangement prevents the adverse effects of cyclic stress within the headblock, while allowing all working components to be easily removed on site for service. Solid ceramic plungers extend the life of the self adjusting plunger seals. The UB-range of UHP pumps includes design features that allow seals and valves to be monitored without tools and maintenance on individual cylinders.



## Typical Applications:

- Water and abrasive blasting.
- Surface preparation (coatings and corrosion removal).
- Pipe cleaning and de-scaling.
- Tank and vessel cleaning.
- Sub-sea cleaning and cutting.
- Floor, road and runway cleaning.
- Pressure testing.
- Cold cutting.
- Road re-texturing and white line removal.
- Heat exchanger tube cleaning.
- Hydrodemolition.

## Water Jetting Units

Skid, site or road trailer and truck-mounted units are available with or without sound reduction enclosures, driven by a choice of diesel engines or electric motors for use in safe or hazardous areas (ATEX compliant where required). All fabrications are grit blasted and high quality powder coated for a durable finish.

For offshore applications, fully certified crashframes or containers are available with paint finishes to customer specification. Every unit supplied is robust, simple to operate and maintain, and designed for longevity. Diesel engines and electric motors are sourced from world leading manufacturers and comply with the latest international standards. Simple control panels are used throughout the product range avoiding the need for PLC systems and ensuring reliability and easy trouble shooting. High capacity water filters and stainless steel suction line fittings are used as standard and boost pumps fitted for higher pressure applications. Shutdown switches are fitted where necessary to monitor various pump and prime mover functions.

## Accessories

To complement the pump sets, a comprehensive range of water jetting accessories is available to cover every application:

- Hand held jetting guns – land and underwater
- Foot control valves
- Unloader and diverter valves
- Surface cleaning jets - pencil, fan and rotating
- Pipe and tube cleaning jets – fixed and rotating
- Heat exchanger cleaning - manual and automatic
- Tank cleaning heads
- Floor, road and runway cleaning
- Water abrasive blasting
- High pressure hoses, flexible and rigid lances



# WIN WATER INJECTION NOZZLES

Airblast Eurospray high velocity Venturi style nozzles have been designed specifically to give maximum blast cleaning rates, uniform abrasive distribution and efficiency over an extensive operating life. Through the Venturi principle the air and abrasive mixture is accelerated as it exits the nozzle. Venturi nozzles increase productivity and reduce abrasive consumption up to approximately 40% as compared with straight bore nozzles. We offer a full selection of nozzles with different orifice diameters, sizes, and insert/jacket materials.

## WIN Nozzle

The WIN (Water Injection Nozzle) system is a simple, cost effective solution for high production, wet abrasive blasting that can be used with your existing pressure blast equipment. The system can be used with water from a tap or with rust inhibitors supplied through any simple pump. No special equipment is required. The WIN system offers the highest performance possible in wet abrasive blasting technology.

Part no.	Description	Orifice (mm)	Length (mm)	Inlet (mm)
AB2460000	WIN-4/50 Water Injection Nozzle	6.4	149	25
AB2461000	WIN-5/50 Water Injection Nozzle	7.9	158	25
AB2462000	WIN-6/50 Water Injection Nozzle	9.5	171	25
AB2463000	WIN-8/50 Water Injection Nozzle	12	227	25



World-leading Surface Preparation and Finishing Solutions

# Shot Blasting Machines



## RC-LINE SHOT BLASTING MACHINES

The RC-line roller conveyer machines available in in 3 different versions. The S (Standard) and H (Heavy Duty) are shot blasting machines designed to process plates, sections, angles, pipes and others. Industries are shipyard, steel structure companies, steel stock holders, machine builders. The S & H version machines can be carried out with a pré heater, automatic painting unit and dryer.

The C (Construction) machine is specially designed for post-fab structural components to be used in industries such as shipyard, automobile, motorcycle, bridge, machine and others to be used in industries such as steel structure, machine builders, shipyards and subcontractors.



Type	S/H/C 15.410	S/H/C 25.610	S/H/C 33.801	S/H/C 45.1010
Effective cleaning width (mm)	1500	2500	3300	4500
Room feed-in size (mm)	1550x600	2600x600	3400x600	4600x600
Length of workpiece (mm)	1200-12000	3000-12000	2400-12000	4500-18000
Speed of wheel conveyer (stepless speed variation in m/min)	0.5-4	0.5-4	0.5-4	0.5-4
Thickness of steel sheet (mm)	1.5-60	3-60	3-110	4.5-100
Beam size reference (mm)	1000x300	1300x300	2 x 800x300	2 x 1000x300
Quantity of shot blasting (kg/min)	4 x 250	6 x 250	6 (8) x 360	8 x 360
First enclosed quantity (kg)	4000	4500	8000	11000
Roll brush adjusting height (mm)	600	600	600	600
Filter capacity (m <sup>3</sup> /hr)	8000	12000	16000	24000
Exterior size (mm)	15200 x 5370 x 6797	31200 x 8070 x 7500	44042 x 6385 x 7758	45000 x 7830 x 11117
Power (except for dust cleaning) (kw)	113.5	204.8	224.55	293.6

All machine types are available in S (Standard), H (Heavy Duty) and C (Construction) version.

## SH-LINE SHOT BLASTING MACHINES

The SH-Line is compact in design, does not require a pit, and consists of units featuring single hook, double hook, lifting and non-lifting style designed to blast all kind of foundry parts, structural components, non-ferrous alloy parts.



Type	Model	Cleaning workpiece size (diameter x height)	Carrying capacity per unit hook (kg)
SH375	Single-hanger	500 x 1000	500
SH376	Single-hanger	800x1200	600
SH376E	Double-hanger	800x1200	600
SH378	Single-hanger	1000x1500	800
SH378E	Double-hanger	1000x1500	800
SH3710	Single-hanger	1200x1500	1000
SH3710E	Double-hanger	1200x1500	1000
SH3720	Single-hanger	1500x2000	2000
SH3720E	Double-hanger	1500x2000	3000
SH3730	Single-hanger	1500 x 2000	3000
SH3750	Double-hanger	2000x2500	5000

## TB-LINE SHOT BLASTING MACHINES

The TB15GN, TB(R)32 and TB28GN machines can be used to remove sand and rust from cast, forged and welded parts as well as aluminum and other non-ferrous parts. This series is especially effective for hard-to-clean parts, non-fragile parts, and non-core castings. These machines are also available in full automation.



Type	TB326	TB3210	TBR3210
Productivity (T/h)	0.6 – 1.2	3 – 5	1.5 – 2.5
Loading weight (kg)	200	800	600
Max. weight of one piece (kg)	10	15	30
Diameter of roller (mm)	650	1000	1000
Available capacity (m <sup>3</sup> )	0.15	0.4	0.3
Pill impelling volume (kg/min)	100	250	250
Dedusting air volume (m <sup>3</sup> /h)	2200	6000	5000
Power dissipation (kw)	12.6	32.6	24.3
Appearance dimension (mm)	3681 x 1650 x 5800	3644 x 2926 x 5856	3972 x 2600 x 4768
Total weight (kg)	2340	5843	7400

Type	TB15GN	TB28GN
Size of roller (mm)	1090 x 1245	1245 x 1778
Diameter of roller (kg)	1092	1250
Working cubage (m <sup>3</sup> )	0.43	0.79
Max. weight of one piece (kg)	227	363
Max. size of one piece (mm)	1000	1000
Loading weight (kg)	800	3500
Pill impelling volume (kg/min)	480	340 x 2
Impeller head power (kw)	22	30

## MR-LINE SHOT BLASTING MACHINES

The MR38 and MR48 are Multiple-Step Rotating Point machines featuring overhead rail and continuous duty operation.

These machines can be used to clean rust and sand from casting and work pieces to be fitted to vehicles such as bolsters and side frames, as well as other types of steel structure and mechanical parts.

These machines can be integrated in wet and powder paint lines and are very efficient and low cost maintenance.



Type	MR383/MR483	MR385/MR485	MR4810
Cleaning workpiece size (dia in mm)	800 x 1200	1000 x 1500	1000 x 2500
Number of workpiece position	2	2	2
Quantity of impeller head	4	4	6
Impeller head volume (kg/min)	4 x 250	4 x 250	6 x 250
Impeller head power (kw)	4 x 15	4 x 15	6 x 15
Max. hanging weight (kg)	300	500	1000
Productivity hanger (/h)	30 – 60	30 – 60	40 – 60
Cleaning workpiece size (mm)	7680 x 2000 x 2900	7680 x 2000 x 2900	7680 x 2000 x 3800
Total Air rate volume (m <sup>3</sup> /h)	17000	19000	19000
Power (except for dust cleaning) (kw)	73.15	73.15	114.72

Type	MR583	MR585	MR5810	MR588
Cleaning workpiece size (dia in mm)	800 x 1500	800 x 1200	1300 x 2800	550 x 2200
Number of workpiece position	2	3	2	2
Quantity of impeller head	4	6	6	4
Impeller head volume (kg/min)	4 x 250	6 x 360	6 x 330	4 x 480
Impeller head power (kw)	4 x 15	6 x 22	6 x 22	4 x 22
Max. hanging weight (kg)	300	500	1000	800
Productivity hanger (/h)	40	55	50	30
Cleaning workpiece size (mm)	3062 x 1800 x 2800	8500 x 1800 x 3885	8500 x 2300 x 4800	6800 x 2600 x 3325
Total Air rate volume (m <sup>3</sup> /h)	16000	18000	18000	17200
Power (except for dust cleaning) (kw)	74.5	186.85	186.85	121.05

## HP-LINE SHOT BLASTING MACHINES

The HP-line Shot Blasting Machines are designed for mono hanger rails for heavy duty construction. industries as agriculture, automotive, steel structures, very useful for full automated production plants.

All machines can be integrated in wet and powder paint lines and are also available in custom build versions.



Type	HP20H	HP50H	HP3740H	HP3720H
Exterior size of cleaning casting (mm)	5880 x 3185 x 957	4000 x 3270 x 1320	2500 x 4650	2000 x 3200
Type of impeller head	XQH400	XQH400	XQH350	XQH350
Power (kw)	8 x 18.5	8 x 18.5	8 x 15	12 x 11
Quantity of shot blasting (kg/min)	8 x 280	8 x 280	8 x 250	8 x 250
Power (except for dust cleaning) (kw)	187.4	187.4	148.3	168.3
Total Air rate volume (m <sup>3</sup> /h)	30000	30000	19000	19000
External dimension (mm)	18000 x 8150 x 11300	21000 x 7000 x 11509	14000 x 6200 x 7500	19000 x 7200 x 7080



## PB-LINE SHOT BLASTING MACHINES

The PB-Line Shot Blasting Machines (inner and outer) are suitable for the surface treatment of internal pipe and related products, available in different sizes for various industries such as oil and gas, steel stockholders and food industry.

Due to the high power turbines (45Kw) on these machines we are capable to work in high production plants. The transport system makes it possible to work with various sizes in the process.



Type	Cleaning size (diameter mm)	Cleaning speed (m/min)	Purposes
OPB100	50 – 300	2 – 10	Outer wall of of shot blasting machine
OPB720	159 – 720	2 – 6	
OPB1200	219 – 1016	1 – 6	
OPB1500	325 – 1600	1 – 6	
OPB2800	1016 – 2800	1 – 2	
IPB100	50 – 300	1 – 4	Inner wall of shot blasting machine
IPB700	325 – 720	1 – 2	
IPB1000	720 – 1016	1 – 4	
IPB1500	1016 – 1500	1 – 4	

## TT-LINE SHOT BLASTING MACHINES

The TT-Line, TT36 and TT76 are designed to blast clean middle and large sized work pieces rotating on a trolley providing a bright and profiled surface, designed for heavy industries.



Type	TT365C	TT3610	TT3620	TT765C	TT76100	TT7620	TT7630
Cleaning workpiece size (mm)	2500 x 1300	2500 x 1500 x 280	4000 x 3000 x 700	2500 x 1300	2500 x 1500 x 280	4000 x 3000 x 700	4000 x 2000
Blasting capacity (kg/min)	2 x 260	4 x 250	4 x 250	2 x 260	4 x 250	4 x 250	4 x 250
Lifting capacity of elevator (t/h)	40	60	75	40	60	75	60
Separation quantity of separator (t/h)	40	60	75	40	60	75	60
Ventilation volume (m <sup>3</sup> /h)	13200	240000	21000	13200	240000	21000	21500
Power (except for dust cleaning) (kw)	39.2	186.45	185.25	39.2	188.45	185.25	83.2
External dimension (mm)	9000 x 4200 x 9290	14900 x 500 x 8700	16900 x 6540 x 10020	9000 x 4200 x 9290	14900 x 500 x 8700	16900 x 6540 x 10020	9168 x 7680 x 10874

## RS-LINE SHOT BLASTING MACHINES

The RS265, RS2615, and the RSES1422 Round Spring shot blasting machines have been specifically designed to achieve the perfect result when blasting round springs. Round springs offer a unique blasting challenge - complete blasting coverage is vital in the critical environment in which the springs operate. Positioning of the blast wheels is crucial in achieving the desired result.



Type	RS265	RS2615	RS1422
Maximum size of cleaning work	Gear wheel: $\varnothing 1500 \times 1700$ Inner gear: $\varnothing 400 \times 2000$ Height: 200 – 500	Gear wheel: $\varnothing 3000 \times 1500$ Inner gear: $\varnothing 400 \times 2500$ Height: 200 – 500	Diameter: 50 – 300 Length: $\leq 700$
Diameter of revolving table (mm)	1500	3000	-
Diameter of small movement revolving table (mm)	500	1000	-
Carrying capacity of revolving table (kg)	5000	15000	-
Power of shot blasting (kw)	3 x 18.5	3 x 18.5	30
Mobile impeller head power (kw)	1 x 18.5	1 x 18.5	-
Quantity of shot blasting (kg/min)	4 x 280	4 x 280	420
Type of dust catcher (m <sup>3</sup> /h)	HR4-16	HR4-32	JZC40
Total air rate volume (m <sup>3</sup> /h)	10000	22000	5940
Power (except for dust cleaning) (kw)	107.15	119.3	40.05
External dimension (mm)	9350 x 3750 x 8790	12000 x 5250 x 8750	8230 x 762 x 1752

## TP-LINE SHOT BLASTING MACHINES

The TP-line of Turning Plate shot blasting machines are designed to blast small to medium-sized work pieces on a rotating plate. The units can be used to blast many different types of workpiece including forged and cast parts and car wheels, and provides a bright and profiled surface. Available in Ferro and non-Ferro performance.



Type	TP3512	TPF3512	TPF3525F
Dimension (diameter) of cleaning chamber (mm)	1350 x 560	1350 x 860	2854 x 560
Cleaning workpiece size (mm)	600 x 250 x 250	600 x 250 x 500	600 x 500 x 250
Turntable car	Loading weight (kg)	400	1000
	Diameter (mm)	1200	2500
Wheelblast equipment	Blasting capacity (kg)	200	2 x 250
	Power (kw)	11	2 x 15
Lifting capacity of elevator (t/h)	15	15	30
Separation quantity of separator (t/h)	15	15	30
First loading capacity (kg)	400	400	1500
Ventilation volume (m <sup>3</sup> /h)	2800	2800	5200
External dimension (mm)	1500 x 3450 x 3780	1900 x 1900 x 4165	4260 x 3647 x 5366
Power (except for dust cleaning) (kw)	24.5	24.5	35.2

## MB-LINE SHOT BLASTING MACHINES

The MB-Line Mesh Belt shot blast machines provide a frequency-controlled speed variable mesh belt surface on which a variety of parts can be uniformly blasted. The high quality mesh belt ensures that the work piece remains in the perfect position to be blasted. As each part is blasted in a controlled fashion this technology is perfect for thin-walled parts which could be damaged when impacting other parts (for example inside a tumble blasting machine). Capable of fully automatic operation, MB-Line machines are the perfect shot blasters to improve the quality and consistency of your castings, forgings, or other small parts.

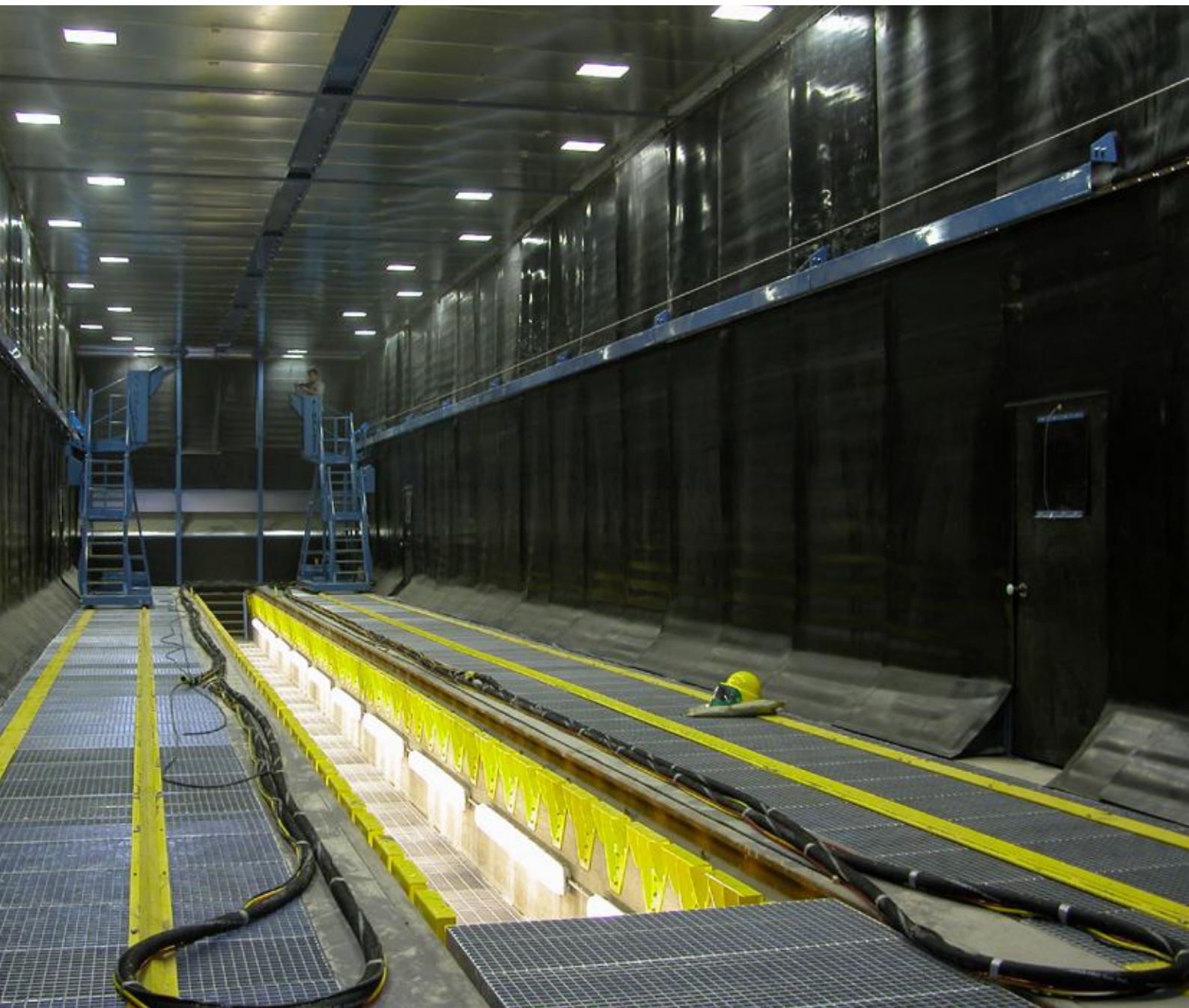


Type	MB1000/4	MB1000/8	MB1250/4	MB1250/8
Net width	1000mm	1000mm	1250mm	1250mm
Maximum load capacity	1200kg	1200kg	1200kg	1200kg
Maximum workpiece weight	100kg	100kg	100kg	100kg
Maximum workpiece section size	1500 x 500mm	1500 x 500mm	1500 x 500mm	1500 x 500mm
No. of blasting wheels	4	8	4	8
Dust air volume	15000m <sup>3</sup> /hr	15000m <sup>3</sup> /hr	15000m <sup>3</sup> /hr	15000m <sup>3</sup> /hr
The total power	97.5KW	97.5KW	97.5KW	97.5KW



World-leading Surface Preparation and Finishing Solutions

# Blast Rooms



# BLAST ROOMS

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## INTRODUCTION

Airblast Eurospray has 30 years' experience of designing, manufacturing, and installing market-leading abrasive blast booths.

From modified shipping containers, to bespoke-built plastic media stripping facilities, Airblast Eurospray is a leading company in the field of surface preparation and coating. We offer acoustically attenuated enclosures, weather-proof enclosures, and more standard builds to house our ground-breaking abrasive recovery systems and ventilation equipment.

We offer a wide range of media recovery options. Our market leading ventilation, recovery systems, and robust design ensure that our products have become established as the machinery of choice for those concerned with professional surface finishing.





## BOOTH CONSTRUCTION

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### ACOUSTICALLY ATTENUATED BLAST BOOTHS

A notable innovation brought to the market by Airblast Eurospray over recent years is our acoustically attenuated booth structure. Twin-skinned and insulated panels reduce breakout sound and allow for quick, efficient construction. The structural strength of the panels allows us to avoid the high costs associated with traditional steel panel booth construction.



## STEEL CONSTRUCTION

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Where span or other imposed loads on the booth are present, Airblast Eurospray also has a traditional structural steel option. This has a 2mm nut-and-bolt assembled galvanised infill panel construction.



## WEATHER-PROOF BOOTH

Where a booth is to be sited externally, Airblast Eurospray offer two solutions. For booths with dimensions within road haulage dimension allowances, Airblast Eurospray has a range of bespoke-built containerised solutions (please see below).

However, larger booths are offered as a system that utilises standard-rolled galvanised structural elements, externally clad with traditional industrial building sheeting and internally clad with our 2mm nut-and-bolt assembled traditional blast booth panelling or our acoustically attenuated panel.

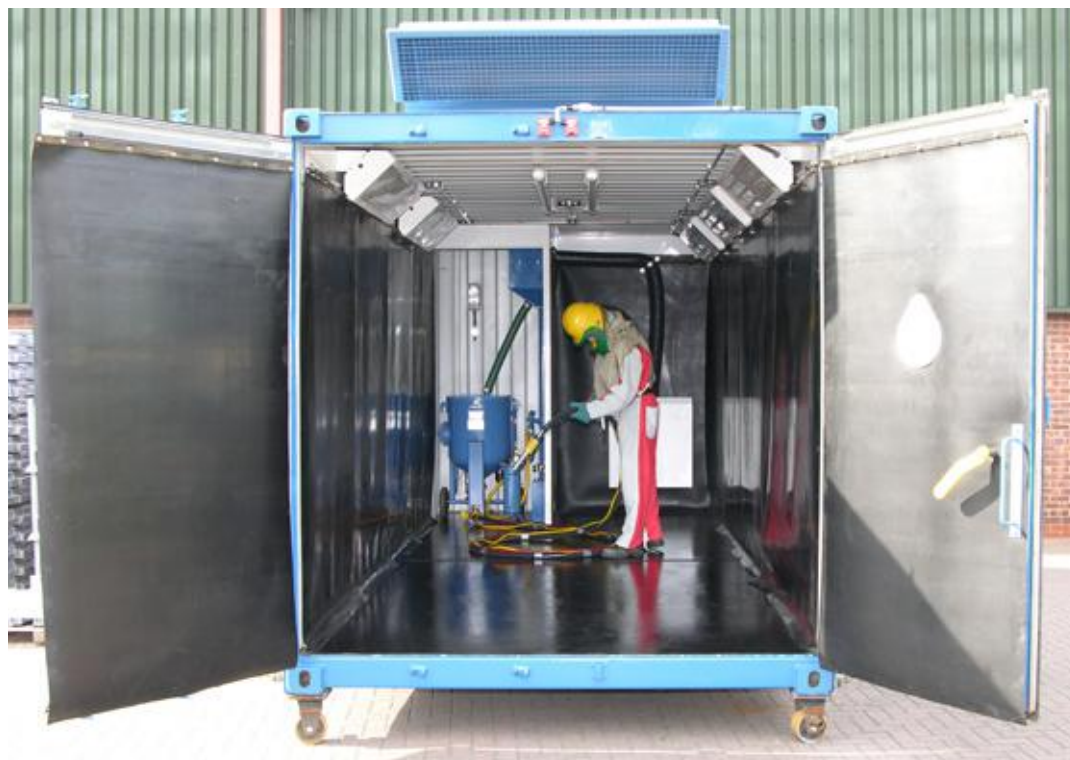




# CONTAINERISED BLAST BOOTH

## STANDARD CONTAINER

Airblast Eurospray offers a range of modified shipping containers that represent great value to end users who are able to operate within the constraints of a standard ISO unit. Containerised booths can be built to accommodate external, dust extraction, and media reclamation plant, or in the case of a weather-proof requirement, internal plant.



## BESPOKE CONTAINER

Following similar lines of construction to a standard ISO unit, Airblast Eurospray offers a range of non-standard containers that have all the features of the standard container mentioned above. These units are specifically built to a customer's size requirements, with the only limitation being the dimensions stipulated by road haulage regulations.



## BLAST SHUTTER

Another example of Airblast Eurospray's innovative approach to machinery design is our electrically powered roller door, the Blast Shutter. Typically, roller shutter doors are not suitable for blast rooms because the door structure is exposed to the abrasive environment inside the booth.

Airblast Eurospray decided to take on the challenge of incorporating the space-saving benefits of a shutter door into a blasting environment. To achieve this, we developed an electrically powered roller door with an inner PVC skin that separates the door mechanism from the roller door itself. This innovation allows us to offer a robust, electrically operated door that is suitable for use in a blast environment while boasting all the advantages of a roller shutter.





## TURNKEY LARGE-SCALE CONSTRUCTIONS

Airblast Eurospray has developed a reputation for its ability to provide turnkey, large-scale surface preparation and finishing facilities. Our work in this field has informed a distinctive approach that gives us a competitive advantage. Experience has taught us to question the assumption that a large host building always necessitates using a main contractor to deliver a piece of process equipment.

Instead, Airblast Eurospray opts to keep the project process led. We do this by considering the primary function of the host building to be weather-proofing. This approach has enabled Airblast Eurospray to deliver numerous large contracts successfully, in partnership with an established and experienced supply chain of structural frame designers, cladding contractors, civil engineers, and M&E contractors. This supply chain allows us to offer ground-breaking design and economy.



# MEDIA RECOVERY

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## VACULIFT

Airblast Eurospray blast rooms can be fitted with a selection of media recovery solutions, the first of which is called the Vaculift. The Vaculift has a high recovery rate that is ideal for in-house blasting operations at a scale that doesn't justify a floor recovery system.

An air wash system separates dust and debris from the recovered abrasive. This allows valuable resources – resources that would otherwise be thrown away – to be cleaned and returned to the blast machine or an optional storage hopper located above the machine.

Lighter dust is transported to a dust collector and the heavier contaminants are caught in a screen. A two-way air valve enables the operator to switch from blasting mode to recovery mode in seconds, ensuring high productivity.

## AIRFLEX RECOVERY FLOOR

The Airflex Recovery Floor system is suited to a production shot blasting environment. It consists of modular corridors of six standard widths that can be produced to any length, for recovery from virtually any floor area.

The Airflex Recovery Floor has a series of flexible scraper blades at intervals in each corridor. The blades rest against galvanised steel combs, which give them enough strength to push the abrasive. On the alternate stroke the comb passes through the abrasive and the scraper blade passes over it. This back-and-forth motion transports the abrasive to a transversal corridor running at right angles to the rest of the floor. This transfers the abrasive to the elevator and grit wash.

The grit wash includes a primary vibrator sieve and air wash. From here, dust is transported to a dust collector, while spent abrasive and large contaminants are sent to a collection bin. Diverting spent abrasive away from the dust collector in this way prevents premature wear of the collector elements, increasing value in the long term.

The operator can control the minimum size of particle that remains in the system by adjusting the power of the vacuum placed on the abrasive; the higher the power the larger the removed particle.

Clean abrasive is deposited in a silo equal in capacity to the volume of the blast machine. Once all the abrasive in the blast machine has been delivered, or when the operator releases the activation handle, the blast machine is automatically charged with fresh abrasive from the silo above.

# MEDIA RECOVERY

## RAPID RECOVERY ELEVATOR

Where demand exceeds the capabilities of the Vaculift system, but doesn't justify an Airflex Recovery Floor system, Airblast Eurospray offers a Rapid Recovery Elevator. These elevators can incorporate larger media storage capabilities - up to 40 tonnes - and rotary scalping drums.

Our philosophy when deploying such an elevator is to ensure that the media storage capability exceeds the volume of abrasive required to process a full blast booth. This allows us to ensure that auger screws are deployed only when necessary.

Typically, operation of one of these booths involves four steps. First, the booth is loaded, next the product is processed, then the booth is emptied, and finally the media is recovered. The media is pushed into a floor hopper, usually by mechanical means such as a scraper attachment to a forklift. The Rapid Recovery Elevator processes media quicker than the blast machine uses it - up to 20,000 kilograms per hour - meaning that blasting operations can recommence within minutes.



## DUST EXTRACTION

Efficient extraction is one of the major differentiators when it comes to blast booth technology. Airblast Eurospray has spent many years developing systems that provide optimal blast room dust extraction and ventilation. We believe it is of the utmost importance to remove dust quickly and efficiently, ensuring clear visibility and preventing unnecessary wear on parts.

Our system begins to capture dust as soon as it is generated, which prevents the dust build-up that affects many other booths on the market today. Our dust extraction rate is 0.254m/s (50fpm). This allows us indefinitely to suspend a particle of metallic dust, preventing it from falling out of the airstream until we have captured it in the dust extractor.

Airblast Eurospray's dust extraction system ensures that air enters the booth at high level and exits at low level, meaning that it works with gravity. Many manufacturers are not able to do this because it requires sophisticated air inlet and outlet fabrications to prevent the escape of abrasive particles. Instead, they choose to extract dust at a high level. This is a less expensive but fundamentally flawed option because the dust extraction system is working against gravity, which generally results in a dusty blast room with poor visibility and low efficiency.

By contrast, Airblast Eurospray's dust extraction technology makes it possible to blast in as dust-free an environment as possible, which improves safety and minimises the number of man hours required to complete a job. Our successful track record has taught us that a clean, efficient, and safe system pays dividends in the long run.



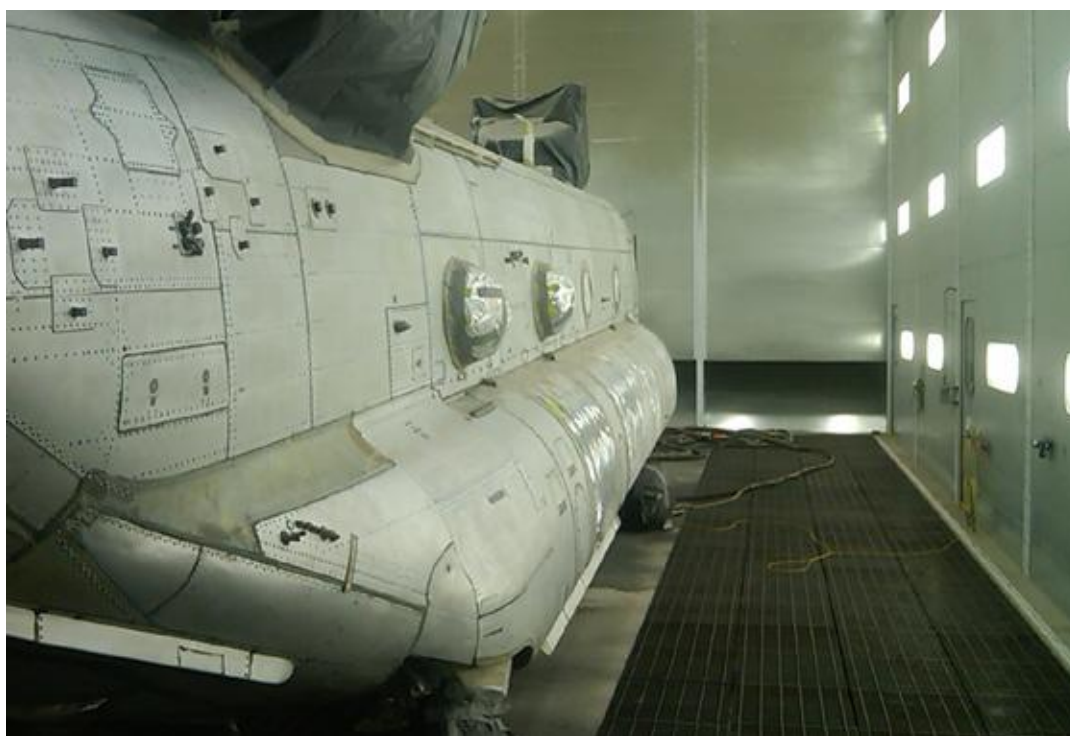
## SPECIALISED BOOTHS

### PLASTIC MEDIA STRIPPING

The Airblast Eurospray Plastic Media Blast Room is manufactured from twin-skinned and insulated panels. These have internal and external faces manufactured from smooth polyester. The panels stand vertically to the full height of the booth and are joined via pre-formed tongue and groove edges. The reflective white walls enhance lighting levels while the insulated construction provides sound attenuation. Additionally, the lightweight materials allow for quick assembly.

Airblast Eurospray can install a Megadoor on larger plastic media blast booths. All Megadoors are specifically engineered for the application at hand and are installed by local firms who specialise in servicing the aerospace industry. Each door is constructed to ISO9000 certified quality assurance criteria to provide reliable service at a very low lifecycle maintenance cost.

Our plastic media booths typically recover media pneumatically from either a floor hopper or, where higher production is demanded, a floor hopper fed by our Airflex Recovery Floor system. Depending on the application, Airblast Eurospray also offers dense particle separation, vibratory sieve classification, magnetic separation, and de-ionisation technology for static reduction.



World-leading Surface Preparation and Finishing Solutions

# Abrasives



# ABRASIVES

## Aluminium Oxide

Virgin Brown Aluminium Oxide is a sharp, fast-working abrasive ideally suited for hand cabinets and blast rooms. Used wet or dry, where ferrous blasting abrasives are not suitable due to the risks of corrosion and magnetisation involved. Ideal for extremely hard workpieces. Reclaimed aluminium oxide is a cheaper alternative to virgin brown but not as cost effective, due to increased breakdown when blasting at high pressures.

White and pink aluminium oxide also available.

Size	Equivalent (mm)	Size	Equivalent (mm)
12	1.68–2.0	60	0.25–0.297
14	1.41–1.68	70	0.21–0.25
16	1.19–1.41	80	0.177–0.21
20	1.0–1.19	90	0.149–0.177
24	0.71–0.84	100	0.125–0.149
30	0.59–0.71	120	0.105–0.125
36	0.50–0.59	150	0.074–0.105
46	0.35–0.42	180	0.062–0.088
54	0.297–0.35	220	0.053–0.074

Tumbling Media sizes	
Size	Equivalent (mm)
2	-44
3	+22
3.5	-22
4	+16
4.5	-16
5	+13
6	-13
7	+8

Reclaimed Blended sizes
12/16
16/24
24/30
30/40
40/60
60/80
80/120
120/220

## Steel shot

Made from high carbon, tempered steel providing durability and resistance to fracture. Used for peening and cleaning. Typical applications include metal improvement, stress relief, removal of heat treatment residue, mill scale, rust, paint and sand from castings.

## Steel grit

Cleans quicker than shot but breaks down at a faster rate. Steel shot or grits are not suitable for certain applications and surface corrosion may occur after treatment. Immediate coating or temporary protection is essential. Metallic abrasives are available in three different types with suitability depending on application.

## Chilled iron

White iron structure which shatters on impact. Harder than steel with a quicker cleaning action. For use in air driven machines to complement their speed and flexibility. The grits are frequently used to etch structural steel and components prior to coating with paint, metal spray or plastics.

Chilled Iron	
Ref No.	Size (mm)
G05	0.125–0.3
G07	0.18–0.42
G11	0.30–0.71
G17	0.42–1.0
G28	0.7–1.2
G39	1.0–1.4
G46	1.2–1.7
G55	1.4–2.0
G66	1.7–2.4

Steel Grit	
Ref No.	Size (mm)
G05	0.125–0.3
G07	0.18–0.42
G11	0.30–0.71
G17	0.42–1.0
G28	0.7–1.2
G39	1.0–1.4
G46	1.2–1.7
G55	1.4–2.0
G66	1.7–2.4

Steel Shot	
Ref No.	Size (mm)
S70	0.18–0.35
S110	0.3–0.5
S170	0.42–0.71
S230	0.6–0.85
S280	0.71–1.0
S330	0.85–1.2
S390	1.0–1.4
S460	1.2–1.7
S550	1.4–2.0

## Copper Slag

An expendable synthetic mineral abrasive which is widely favoured for open nozzle blasting applications by virtue of its fast rates. A range of grades is available to suit most applications.

Grade	Grain Size (mm)	Average Max Profile*	Cleanliness Standard*	Typical Application
Extra Fine	0.1–0.8	25–45	Sa3	Wet blasting, motor bodywork, selective coating removal, timber cleaning
Fine	0.2–1.7	60–90	Sa3	Selective coating removal, steelwork, tanks, pipes, brickwork and concrete
Coarse	2.0–2.5	100–150	Sa2	Marine growth, cement build up, heavy corrosion and concrete exposed aggregate blasting

# ABRASIVES

## Glass Bead

Produced from soda-lime, glass beads are used for peening and the removal of almost any surface blemish. They can be used safely for texturing or producing attractive cosmetic finishes, without damaging the base material. Being totally inert, there is no risk of corrosion or any contamination. Unless excessive blasting occurs there is no alteration in the dimensions of the treated surfaces. Strict control of both manufacturing and grading processes ensure consistency of finish.

25kg bags shrink wrapped on 1 tonne non-returnable pallets.

Grade	Microns	Mesh	Inches	Alternative supplier reference					
A	590–840	20–36	0.0234–0.0331	BT3		400–800	203		MS–XPX
B	420–590	30–40	0.0165–0.0234	BT4		200–600	204	H8	MS–XP
C	250–420	40–60	0.0098–0.0165	BT5	BOL21	300–400	205	H9	MS–P
AB	177–297	50–80	0.0070–0.0117	BT6	BOL23	150–300	206	H10	MS–XH
AC	149–250	60–100	0.0059–0.0098	BT7	BOL24	149–250	207	H12	MS–H
AD	105–210	70–140	0.0041–0.0083	BT8	BOL25	100–150	208	H13	MS–M
AF	74–149	100–200	0.0029–0.0059	BT11	BOL27	74–149	209	H14	
AG	53–105	140–270	0.0021–0.0041	BT12		53–105		H16	MS–ML
AH	44–88	170–325	0.0017–0.0035	BT13		0–100		H18	MS–L
AQ	30–60	270–500	0.0012–0.0024					H22	MS–XL

## Glassia Grit

Multi-purpose expendable abrasive, safe alternative to silica sand suitable for cleaning brick, stone, concrete, wood, stainless steel and soft alloys to provide a fine profile prior to coating application or a decorative satin finish. Ideal for applications where a light coloured abrasive may be more aesthetically or environmentally acceptable.

Grade	Size range (mm)	Bag size (kg)
Fine	0.20–0.50	25 bags
Medium	0.50–1.25	25 bags
Coarse	1.00–2.00	25 bags

## Olivine

Olivine is a naturally occurring silica-free material of low specific density and is available in four sizes. Olivine is particularly good for many light blasting applications, and has proven very popular with expendable users. It is sand coloured and highly suitable for wet blasting and building cleaning where darker media may cause a nuisance, for instance on clean up or with impingement. Airblast Eurospray Olivine is iron free and contains no free silica so can also be used on stainless steel and aluminium surfaces for coating preparation or removal applications.

Grade	Size range (mm)	Surface profile*
AFS80	0.090–0.250	Extra fine
AFS50	0.125–0.500	Fine
AFS30	0.180–1.000	Medium
AFS20	0.355–2.360	Coarse

\*Achieved in Mild Steel (BS 7079)

# ABRASIVES

## Garnet

Garnet is dense, tough and dust-free for fast cleaning and coating removal. Particularly suitable where material can be recycled, making it very economical. Generally works 30%–50% faster than slag grits, due to its higher density.

Grade	Micron	Cleanliness standard
Fine	150/300	Sa3
Medium	200/600	Sa3
Coarse	500/1000	Sa3

## Plastic media

### Type II

Made from Urea, it is more aggressive than Type V and suits light industrial cleaning. For use at low pressure it is fast, efficient and non-damaging. A cost effective replacement for chemical stripping and superb paint remover.

### Type V

Made from Acrylic, Type V solves coating removal and surface preparation problems. It provides rapid coating removal, minimal substrate abrasion and is a low-cost alternative to chemical stripping and sanding.

Physical Characteristics	Type I	Type II	Type III	Type V
MOHS	3.0	3.5	4.0	3.5
Barcol	34–42	54–62	64–72	46–54
Specific Gravity (g/cc)	1.15–1.25	1.47–1.52	1.45–1.52	1.15–1.20
Bulk Density (lbs/ft <sup>3</sup> )	45–48	58–60	58–60	45–48
Max. Oper. Temperature (°F)	250	300	350	200
Chemical Nature	Inert	Inert	Inert	Inert

NOT SURE WHICH  
ABRASIVE IS RIGHT FOR  
YOUR JOB?

CONTACT OUR SALES TEAM FOR ADVICE  
ON 01778 560650





# STEEL SURFACE FINISHING STANDARDS

	SA1	SA2	SA2 1/2	SA3																													
	<b>BRUSH-OFF BLAST CLEANING</b> Removal of loose mill scale, loose rust and loose paint, to a degree hereafter specified, by the impact of abrasives propelled through nozzles or by centrifugal wheels. It is not intended that the surface shall be free of all mill scale, rust and paint. The remaining mill scale, rust and paint should be tight and the surface should be sufficiently abraded to provide good adhesion and bonding of paint. A brush-off blast cleaned surface finish is defined as one from which all oil, grease, dirt, rust scale, loose mill scale, loose rust and loose paint or coatings are removed completely but tight mill scale and tightly adhered rust, paint and coatings are permitted to remain provided that all mill scale and rust have been exposed to the abrasive blast pattern sufficiently to expose numerous flecks of the underlying metal fairly uniformly distributed over the entire surface.	<b>COMMERCIAL BLAST CLEANING</b> Removal of partial mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree specified. A commercial blast cleaned surface finish is defined as one from which oil, grease, dirt, rust scale and foreign matter have been completely removed from the surface and all rust, mill scale and old paint have been completely removed except for slight shadows, streaks, or discolouration caused by rust stain, mill scale oxides or slight residues of paint or coating that may remain if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discolouration, slight staining or tight residues mentioned above.	<b>NEAR-WHITE BLAST CLEANING</b> Removal of nearly all mill scale, rust, rust scale, paint, or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree hereafter specified. A near-white blast cleaned surface finish is defined as one from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint or other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks or slight discolourations caused by rust stain, mill scale oxides, or light, tight residues of paint or coating that may remain. At least 95% of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discolouration mentioned above.	<b>WHITE METAL BLAST CLEANING</b> Removal of all mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by the centrifugal wheels. A white metal blast cleaned surface finish is defined as a surface with a grey-white, uniform metallic colour, slightly roughened to form a suitable anchor pattern for coatings. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.																													
<p>STEEL SURFACE LARGELY COVERED WITH ADHERING MILL SCALE BUT LITTLE, IF ANY, RUST.</p>	<p>STEEL SURFACE WHICH HAS BEGUN TO RUST AND FROM WHICH THE MILL SCALE HAS BEGUN TO FLAKE.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, BUT WITH SLIGHT PITTING VISIBLE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL PITTING IS VISIBLE UNDER NORMAL VISION.</p>																														
<table border="1"> <tr><td>SSPC-SP-7</td><td>Steel Structures Painting Council (USA)</td></tr> <tr><td>SA 1</td><td>Swedish Standards Organisation</td></tr> <tr><td>NACE 4</td><td>National Organisation of Corrosion Engineers (USA)</td></tr> </table>	SSPC-SP-7	Steel Structures Painting Council (USA)	SA 1	Swedish Standards Organisation	NACE 4	National Organisation of Corrosion Engineers (USA)	<table border="1"> <tr><td>SSPC-SP-6</td><td>Steel Structures Painting Council (USA)</td></tr> <tr><td>SA 2</td><td>Swedish Standards Organisation</td></tr> <tr><td>NACE 3</td><td>National Organisation of Corrosion Engineers (USA)</td></tr> <tr><td>3rd Quality</td><td>United Kingdom Standards (BS 4232)</td></tr> </table>	SSPC-SP-6	Steel Structures Painting Council (USA)	SA 2	Swedish Standards Organisation	NACE 3	National Organisation of Corrosion Engineers (USA)	3rd Quality	United Kingdom Standards (BS 4232)	<table border="1"> <tr><td>SSPC-SP-10</td><td>Steel Structures Painting Council (USA)</td></tr> <tr><td>SA 2-1/2</td><td>Swedish Standards Organisation</td></tr> <tr><td>NACE 2</td><td>National Organisation of Corrosion Engineers (USA)</td></tr> <tr><td>2nd Quality</td><td>United Kingdom Standards (BS 4232)</td></tr> </table>	SSPC-SP-10	Steel Structures Painting Council (USA)	SA 2-1/2	Swedish Standards Organisation	NACE 2	National Organisation of Corrosion Engineers (USA)	2nd Quality	United Kingdom Standards (BS 4232)	<table border="1"> <tr><td>SSPC-SP-5</td><td>Steel Structures Painting Council (USA)</td></tr> <tr><td>SA 3</td><td>Swedish Standards Organisation</td></tr> <tr><td>NACE 1</td><td>National Organisation of Corrosion Engineers (USA)</td></tr> <tr><td>1st Quality</td><td>United Kingdom Standards (BS 4232)</td></tr> </table>	SSPC-SP-5	Steel Structures Painting Council (USA)	SA 3	Swedish Standards Organisation	NACE 1	National Organisation of Corrosion Engineers (USA)	1st Quality	United Kingdom Standards (BS 4232)
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## ACHIEVING THE BEST FINISH

The finish surface achieved by abrasive blast cleaning depends upon the original surface condition as well as the type of abrasive blasting equipment, size, hardness, type and abrasive shape.

**THE ORIGINATING SURFACE CONDITION OF STEEL IS:**

- ▶ Steel surface largely covered with adhering mill scale by little, if any, rust.
- ▶ Steel surface which has begun to rust and from which the mill scale has begun to flake.
- ▶ Steel surface on which the mill scale has rusted away or from which it can be scraped, but with slight pitting visible under normal vision.

**SURFACE CLEANLINESS IS DIVIDED INTO FOUR GRADES:**

- ▶ SA 1 Brush off.
- ▶ SA 2 Commercial.
- ▶ SA 2-1/2 Near white metal.
- ▶ SA 3 White Metal.

Besides cleanliness of the steel, consideration needs to be given to the etch or profile roughness created by the impact of the abrasive on the steel surface.

**THE SUBSTRATE PROFILE IS REGULATED BY:**

- ▶ Shape, type and grading of abrasive.
- ▶ Blasting method and velocity of abrasive impaction.
- ▶ Steel condition prior to blasting.

The etched profile of the surface enables adhesion of the protective paint coatings. If the level at which this is achieved is too severe it will cause a waste of paint. If too light, it may cause a lack of adhesion.

The best method of obtaining a profile specification is to ensure the correct blasting equipment and method are combined with the correct abrasive. Once these requirements have been decided upon, the selection of method, equipment and training of personnel should be instigated.

Equipment used for surface preparation must be extremely reliable and simple to use. Operation information and training should be up-to-date.

Airblast has become the industry standard for manufacturing and supplying surface finishing equipment worldwide through a network of branch-offices as well as distributors.

World-leading Surface Preparation and Finishing Solutions

# Inspection





# DTH-100 DIGITAL THERMOMETER

The DTH-100 Digital Thermometer allows immediate measurement of the substrate temperature.

The digital display clearly indicates the prevailing temperature and auto-updates as the temperature changes.

The ergonomic housing ensures a comfortable fit into the palm of the hand or easy storage in a pocket. The unit is supplied in a protective pouch for safe and easy storage.

The rigid stainless steel ribbon surface contact probe is secured into the body of the housing when not in use protecting against accidental damage. By folding the probe out of the housing through 180 degrees the unit turns on and becomes ready for use. The battery saving auto-shut-off feature turns off the product after five minutes of inactivity.

Accurate temperature information is important to ensure, for example, that the substrate remains within the advised temperature parameters of the coating system, or to ensure that the substrate temperature remains above the prevailing dew point.

A calibration certificate traceable to UKAS is available as a cost option upon request.



Part no.	Product	Range	Range temperature	Accuracy	Cal Cert Part No.
AB7861000	DTH-100 Digital Thermometer - Metric	-50 to 300°C	1°C	±1%	AB786100
AB7861001	DTH-100 Digital Thermometer - Imperial	-50 to 572°F	1°C	±1%	AB7861005

# MTH-110/111 MAGNETIC THERMOMETER

The MTH-110 Magnetic Thermometer allows immediate measurement of the substrate temperature.

The MTH-110 Magnetic Thermometer measures surface temperature. The thermometer can easily be placed on ferrous substrates with the strong magnet on the back. Surface temperature can be read out in both °C and °F. Measuring Range is -10°C to +70°C; +14°F to +160°F. The diameter of the thermometer is 63mm. Can be used in a vacuum. No plastic parts on the outside of the thermometer.

The MTH-110 Magnetic Thermometer for surface temperature comes in a genuine leather pouch with belt-clip.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861100	MTM-110 Magnetic Thermometer	-30° to 50°C	1°C	±2%	AB7861105
AB7861101	MTM-111 Magnetic Thermometer	0° to 120°C	1°C	±2%	AB7861105

## WHY AIRBLAST EUROSPRAY?

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# DPM-120 DEWPOINT METER

The DPM-120 is a multi-functional instrument which can be used to measure, record, and analyse the important climatic parameters in the surface treatment of metal substrates: air temperature, surface temperature, relative humidity, dew point. Additional information such as the time and date of readings taken are recorded for future reference. The ergonomic and tough DPM-120 is supplied in a convenient protective carry case.

Accurate temperature and humidity information is important to ensure, for example, that the substrate remains within the advised temperature parameters of the coating system, or to ensure that the substrate temperature remains above the prevailing dew point.



## Features

- Large illuminated graphic display.
- One-hand operation.
- Simple menu-driven user interface.
- Extensive data-logging capabilities, readings are time and date stamped and stored on the gauge.
- USB-Interface connects the unit to the PC for programming and downloading data.
- To be used as "on the spot" inspectors tool or "stand-alone" data logger.
- Heavy duty ergonomic case.
- Set limits for each parameter.
- Acoustic and visual alarms.
- Select Celsius/Fahrenheit.
- Automatic trend indicator shows the trend of climatic conditions (rising, falling, stable).
- High-end industrial sensors and built-in probes.
- Integrated 'back-up' LED flashlight.
- DewLog temperature and humidity monitoring software included.
- Two year valid calibration certificate.

## Complies with International Standards

ISO 8502-4, ASTM D3276-05, BS 7079-B4, NACE RP prop 97.

### Specifications DPM-120 Dewpoint Meter - Part no. AB7861200

#### Humidity

Accuracy	(0...80°C, 0...176°F) ± 3 % RH
Measurement resolution	0.1%
Measurement range	0...100% RH

#### Temperature Ta (air)

Accuracy	±0.5°C, ± 1°F (over the full measurement range)
Measurement resolution	0.1°C, 0.1°F
Measurement range	-20...+ 80°C, -4...+ 176°F

#### Temperature Ts (Surface)

Accuracy	± 0.5°C, ±1°F (over the full measurement range)
Measurement resolution	0.1°C, 0.1°F
Measurement range	-30...+60°C, -22...+140°F

#### Temperature Ts (Surface External)

Accuracy	±0.5°C, ±1°F (over the full measurement range)
Measurement resolution	0.1 °C, 0.1 °F
Measurement range	-30...+60°C, -22...+140°F

#### Display

#### Graphical presentation with backlight

Operating temperature range	-20°C...60°C, -4...+140°
-----------------------------	--------------------------

#### Keys

Menu	3
On / off	1 (electronic)
LED flashlight	1 (electronic)

# DPM-120 DEWPOINT METER

<b>Memory</b>	
Type	Dynamic
Memory size manual logging	6000 records
Record content manual logging	Time/date, humidity, Ta, Ts, Td, Tdelta, status byte for alarm
Memory size interval logging	12000 records
Record content interval logging	R Humidity, Ta and Ts. Other parameters and date and time are calculated
Batches	8 Batches max
<b>Measurement / Features</b>	
Limits	Adjustable for each parameter
Lo-Hi Alarms	Beep sound, symbol in display and Red LED
Hold/freeze function	Yes
Data storage	Two modes: Manual and interval (auto)
Data recall	Gauge displays average, min/max of each batch. Downloading to PC possible via optional adapter
Battery indicator	Yes, detailed
Trend indicator	Yes
User interface	Menu driven through up/down/enter key
Languages	4 languages, English, German, French, Spanish
Extra	Built-in bright white LED orientation flashlight

## WHM-130 WHIRLING HYGROMETER

The WHM-130 can be used to calculate the prevailing dew point temperature quickly, easily, and economically in combination with a dew point calculation table.

Accurate dew point temperature information is important to ensure that the substrate temperature remains above the prevailing dew point thus avoiding condensation on the substrate.

Rapid rotation of the WHM-130 results in air movement around the thermometer bulbs, one of which measures the ambient temperature, the other measures the wet bulb (being housed in a reservoir in a fabric sleeve). The resulting temperature readings can be used with the dew point calculation table or dew point calculator to show the dew point. The WHM-130 is supplied in a hard plastic protective case.

A calibration certificate traceable to UKAS is available as a cost option upon request.

### Complies with International Standards

BS 2842, ASTM E 337 B.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861300	WHM-130 Whirling Hygrometer	-5 to 50°C	0.5°C	±2%	AB7861320

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## DPC-140 DEWPOINT CALCULATOR

The DPC-140 Dew Point Calculator can be used in conjunction with the WHM-130 Whirling Hydrometer (or an electronic temperature and relative humidity meter) to calculate the prevailing dew point temperature quickly, easily, and economically.

Accurate dew point temperature information is important to ensure that the substrate temperature remains above the prevailing dew point thus avoiding condensation on the substrate.

The DPC-140 is easy to use to establish the dew point: once the temperature readings have been recorded from the WHM-130 Whirling Hydrometer. Determine the dew point by putting the dry bulb temperature (upper white scale 1) against the wet bulb temperature (upper black scale). Read the dew point in window 2 against the earlier determined wet bulb temperature.

The DPC-140 is supplied in a protective case.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861400	DPC-140 Dewpoint Calculator	-6 to 43°C	0.5°C	±1%	7861410
		20 to 110°F			

# SSM-200 SOLUBLE SALT METER

A new inspection tool has been developed to replace the Bresle patch method for soluble salt determination. This Soluble Salt Meter, for which United States Patent No. 8,252,600 was issued on August 28th 2012, was designed around the current Bresle patch salt inspection method. The SSM test protocol exactly duplicates the Bresle process, except that measurements are automated and there are no consumables (except distilled water). The complete test sequence requires only one minute. The SSM is approved as an authorised alternative to the Bresle patch method.



## Benefits

- Accurate, easy measurements
- Memory stores up to 1000 measurements for download and analysis
- Repeatable results
- Rugged, industrial hardened measurement device
- Simple operating instructions
- Reduced process steps (17 steps reduced to 6 steps)
- Reduced process time (only one minute reading to reading)
- Eliminate process induced surface contamination (sticky residue)
- Equipment easily transportable (tank inspections)
- Improved safety (syringes/needles eliminated)
  - Operator error minimised
  - Metered water injection
  - Automatic data recording feature (configured to work with coating technical file)

<b>Standards</b>	Equivalent to ISO Standard 8502-9 (Field method for the conductometric determination of water-soluble salts; The Bresle method) in accordance with NACE SP0508-2008.
<b>Measurement area</b>	1250mm (circular) fixed foot print
<b>Attachment method</b>	Magnetic with silicone seal (no effect on surface quality; proven to seal over deep pits)
<b>Water injection method</b>	Automated, with simple press of fixed volume dispenser
<b>Dose</b>	3 ± 0.05ml
<b>Measurement process steps</b>	5
<b>Total process time</b>	60 seconds (Measurement to Measurement)
<b>Measurement range</b>	0-100µS/cm
<b>Resolution</b>	1µS/cm
<b>Measurement accuracy</b>	± 3µS/cm
<b>Surface temperature range</b>	5-50°C(41-122°F)
<b>Temperature probe accuracy</b>	±0.3°C (± 0.54°F)
<b>Diameter of curvature:</b>	- Standard measuring head >=44 inch/1100mm - <b>Measuring head 1</b> 26<=>42inch/650<=>1050mm - <b>Measuring head 2</b> 14<=>24inch/350<=>600mm - <b>Measuring head 3</b> 8<=>12inch/200<=>300mm
<b>Readout</b>	µS/cm or mg/m <sup>2</sup>
<b>Memory</b>	Holds up to 1000 measurements (10 batches of up to 100 measurements each)
<b>Connectivity</b>	via USB with PC or laptop
<b>Power supply</b>	Lithium-ion rechargeable battery
<b>IP Rating</b>	IP54
<b>Dimensions</b> (instrument only)	21 x 10 x 8cm
<b>Weight</b> (instrument only)	780g



## SSM-200 SOLUBLE SALT METER

The SSM can be purchased in two versions: the "Lite" version which includes 50 measurements with the possibility to purchase additional measurements as and when required, and the "Unlimited" version which can take unlimited readings. The "Lite" version provides the possibility to reduce the initial purchase price of the SSM and to purchase additional readings for specific projects. The "Lite" version can be upgraded to the "Unlimited" version by purchasing a licence.

Part no.	Description
AB7862000	SSM-200 Soluble Salt Meter Kit ("Unlimited" version), includes: <ul style="list-style-type: none"> <li>• Soluble Salt Meter</li> <li>• SSM adapter flat surface</li> <li>• Dispenser</li> <li>• Power supply</li> <li>• USB cable and PC software</li> <li>• Calibration fluid</li> <li>• Carrying case</li> <li>• Certificate of performance</li> <li>• Unlimited credit measurements</li> </ul>
AB7862001	SSM-200 Soluble Salt Meter Kit ("Lite" version). Same as above only with 50 measurements.
AB7862004	Upgrade license from "Lite" version to "Unlimited" version
AB7862005	100 measurements
AB7862011	Adapter pipe diameter 65–105cm (26"–42")
AB7862012	Adapter pipe diameter 35–60cm (14"–24")
AB7862013	Adapter pipe diameter 20–30cm (8"–12")
AB7862014	Set of adapters pipe diameter 20–105cm (8"–42")
AB7862015	Performance check for SSM-200 with certificate

# BTK-220 BRESLE TEST KIT

The presence of salts on the substrate can lead to the premature failure of the coating system. Most high performance coating systems require that the substrate be cleaned to a recognised standard before the application of the coating.

Once the bresle patch is applied to the surface to be tested, distilled water can be analysed using the conductivity meter before being injected into and then extracted from the bresle patch the required amount of times before being analysed again in the conductivity metre. The difference in the two readings shows the conductivity of the water - by multiplying the result by 0.4 the presence of salts expressed in parts per million is shown.

The BTK-220 Bresle Test Kit includes all the necessary equipment for assessing the level of soluble salts on blast-cleaned surfaces prior to coating. Inside the Bresle Test Kit is a conductivity gauge used for the assessment of soluble salt ions as chlorides, sulphates and nitrates. The Bresle Test Kit complies with the ISO 8502-6 and ISO 8502-9 standards, describing the Bresle Method. This states that the conductivity is mainly directly proportional to the concentration of dissolved salts in the solution.



## Contamination of blast-media

The Bresle Kit is also suitable to determine the contamination of blast-media. This prevents the dissolved salts in the recycled abrasive contaminating the surface being cleaned.

## Features

Unique Direct Sampling Procedure (DSP) to ensure high speed and accuracy. Up to 60 times more accurate than other test kits available.

## Application areas

Marine coatings, protective coatings, pipeline coatings.

## Standards

According to ISO8502-6, ISO8502-9

SPECIFICATIONS	
Conductivity Meter Range	0.1–20000mg/m <sup>2</sup> (with DSP method)
Conductivity Meter Resolution	0.1mg/m <sup>2</sup> (with DSP method)
Conductivity Meter Accuracy	1%
Patches supplied	25
Temperature range	0–50°C
ATC	0–50°C
Normalisation temperature	25°C
Auto off	8.5 minutes after last key pressed
IP class	IP67
Auto calibration	at 84 μS/cm
Patch area	12.50cm <sup>2</sup>
Patch type	Latex membrane

# BTK-220 BRESLE TEST KIT

Part no.	Description
AB7862200	BTK-220 Bresle Test Kit, complete (includes spares as shown below)
<b>Spares</b>	
AB7862210	Bresle patches (pack of 25)
AB7862220	Digital Conductivity Meter (waterproof)
AB7862221	Cleansing solution 50ml
AB7862222	Calibration solution 84µS, 50ml
AB7862223	Cup 25ml
AB7862230	Syringe incl. needle 2.5ml
AB7862231	Syringe without needle 20ml
AB7862232	Needle
AB7862240	Deionised water 200ml
<b>Optional</b>	
AB7862211	Calibration Certificate for BTK-220
AB7862212	ISO 17025 approved certificate of patches
AB7862213	Bresle area mask magnet
<b>On request</b>	
	Beaker for testing of blast media 100ml

### Standard delivery includes

- Digital conductivity meter
- Bresle patches 25 pcs.
- Cleansing solution 50ml/Calibration solution 84µS 50ml/De-ionised water 200ml
- Cups, syringes and needle
- Instruction manual

### Special care

- Always clean the instrument after use and keep the instrument in its case when not in use.
- Depending on the frequency of use, a thin film may occur on the probe. Use a clean cotton swab and cleansing solution to remove this.

## BTP-230 BRESLE PATCHES

The Bresle patch is a self-adhesive film patch for taking samples of soluble impurities on a test surface.

### Application

Surface contaminants, such as salt, may cause coating failure and increase maintenance costs for vessels, industry buildings and steel structures in general. Coating failure such as blistering and corrosion may be the result of a too high level of salt prior to painting. The Bresle Method described in the ISO 8502-6 is commonly used to measure the level of surface salts prior to coating. A so-called Bresle patch (a small self-adhesive plastic patch) with a washed latex membrane and a known surface area is used to dissolve the soluble salts. It can be used to check for the presence of salts such as chlorides and sulphates on the substrate prior to the application of the coating.



<b>Part no.</b>	<b>AB7862210</b>	
<b>Description</b>	Bresle patches (packed in a plastic container per 25 pcs.)	
<b>Technical Specifications</b>	Size	5 x 5cm (2.0"x 2.0")
	Sample volume	2.5ml
	Test Area	12.5cm <sup>2</sup> (1.93 sq. inches)
	Stress test	Meets ISO8502-6 Annex A
<b>Material</b>	Elastic film	Latex
	Tape	PE with acrylic based adhesive
	Protective paper	Coated
	One Bresle patch contributes with less than 8mg NaCl/m <sup>2</sup> (0.8µg Na/Cl/cm <sup>2</sup> )>	
<b>Certification</b>	Each production batch of Airblast Eurospray Bresle patches is certified by an ISO 17025 accredited test laboratory	
<b>Storage</b>	Store in a cool and dark place. Keep Bresle patch away from direct sunlight	

# TXT-300/TXG-320 TESTEX SURFACE ROUGHNESS KIT

TXG-300 Testex Tape accurately reproduces the profile of the blasted surface which can be read by the TXG-320 Testex Gauge.

Achieving the correct profile during the blasting process is critical to ensure that the coating system to be applied performs correctly.

The TXG-300 Testex Tape is fitted with a protective paper which needs to be removed before the tape is adhered to the blasted surface and pressure applied. When removed, the tape features the profile of the blasted surface which can be read by the gauge and the average maximum peak to the valley height calculated. The gauge first needs to be zeroed to 50microns to take into account the backing on the tape, then the tape is placed in the gauge and the movable anvil adjusted onto the film – the reading is then ready to be taken.

Locations which are not easily accessible to other devices such as inside pipes and grooves can easily be measured using the testex tape method.

A calibration certificate traceable to UKAS is available as a cost option upon request.

### Complies with International Standards

ISO DIS 8503-3, BS 7079-C5, ASTM D 4417-C, NACE RP 0287-95.



Part no.	Description	Range Metric	Range Imperial	Nr. of tests	Conformance Certificate
AB7863301	TXG-300 Testex Tape - Coarse	20–50µm	0.8–2.0mils	50	7863011
AB7863302	TXG-300 Testex Tape - X-Coarse	40–115µm	1.5–4.5mils	50	7863011
AB7863303	TXG-300 Testex Tape - X-Coarse Plus	100–125µm	4.0–5.0mils	50	7863011
					<b>Calibration Certificate</b>
AB7863200	TXG-320 Testex Gauge (Metric and Imperial)				7863205

# SRC-340/341 SURFACE ROUGHNESS COMPARATOR

A precision Nickel Comparator Plate that conforms to International Standards ISO 8503 and ASTM D4417 for grit and shot blasted surface roughness comparison.

The SRC-340 (Grit) and SRC-341 (Shot) Surface Roughness Comparators can be used to assess the roughness of the surface of a substrate which has been blasted with shot or grit.

The classification of blast cleaned surfaces is subjective. In order to assist regular and consistent classification, shot blasted surfaces can be defined as angular (after blasting with grit), or dimpled (after blasting with shot), and furthermore into three grades: Fine, Medium, Course (as per ISO 8503).



The grades are defined as follows:

**Fine** profile equal to segment one and up to but excluding segment two.

**Medium** profile equal to segment two and up to but excluding segment three.

**Course** profile equal to segment three and up to but excluding segment four.

The relevant Comparator can be placed against the blasted surface and each of the four sections compared with the surface finish assisted with the use of an illuminated magnifier.

The Comparator is supplied in a protective case.

### Complies with International Standards

ISO, 8503-1, ISO 8503-2, ASTM D 4417-AABS 772.

Part no.	Model type	Section profiles Metric	Section profiles Imperial
AB7863400	Grit	25µm, 60µm, 100µm, 150µm	1mils, 2.4mils, 4mils, 6mils
AB7863410	Shot	25µm, 40µm, 70µm, 100µm	1mils, 1.6mils, 2.8mils, 4mils
AB7865580	Illuminated Magnifier 2.5x (for viewing the Surface Comparator)		



## SPG-360 SURFACE PROFILE GAUGE

The SPG-360 Surface Profile Gauge can be quickly and easily used to establish the valley - to - peak height of a blast cleaned surface in compliance with the ASTM D4417 standard.

Achieving the correct profile during the blasting process is critical to ensure that the coating system to be applied performs correctly.

The SPG-360 Surface Profile Gauge is easy to use: simply place the gauge on a glass plate and zero the instrument, then place the gauge onto a blasted surface. The sharp stylus point rests on the bottom of the valley and the flat foot sits atop the peak – the gauge digitally displays the height difference between the two values.

The SPG-360 Surface Profile Gauge has a resolution of one micron and can be switched between imperial and metric readings. It is supplied complete with a glass zero plate in a protective carry case.

A calibration certificate traceable to UKAS is available as a cost option on request.

### Complies with International Standards

ASTM D 4417-B, SABS 772.



Part no.	Description	Range	Resolution	Accuracy	Cal Cert Part no
AB7863600	SPG-360 Surface Profile Gauge	0–3.4mm	1µm	±5µm	7863605
		0–0.12 inch	0.04mils	± 0.2mils	

# DFT-400/420 DRY FILM THICKNESS GAUGE

The DFT-400 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness assessment on ferrous substrates only. The DFT-420 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness assessment on ferrous *and* non-ferrous substrates.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – assessing the dry film thickness of the paint after the coating process is an invaluable tool to ensuring that the thickness of the coating is as specified.

The DFT-400 and DFT-420 Dry Film Thickness Gauges are ergonomic and light-weight yet tough and reliable, and are powered by standard alkaline batteries. Both units are switched on by placing the probe on the substrate to be measured and feature single button operation and intuitive menus. An audible signal confirms that a reading has been successfully taken and the back-lit screen displays readings clearly and quickly. Each gauge is supplied calibrated for life; this means that there is no requirement to calibrate the gauge before use, or in changing climatic conditions – simply use the zero plate provided to zero the gauge before use, or in changing climatic conditions, to ensure the accuracy of the readings.

Both gauges are available in integral or separate probe design with an industry leading polished ruby tip, ensuring millions of fast, reliable and accurate readings of up to Fe 5000 microns and/or NFe 3000microns. Each gauge features a sleep mode which turns the unit off after a short period of inactivity; by placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

The DFT-400 and DFT-420 are supplied in foam-filled hard plastic carry cases with an additional soft plastic pouch for ease of transportation in the job site, reference plates, 2 x 1.5V Mignon batteries (type AA alkaline), test certificate and instruction manual. Both gauges have hand-size straps allowing for easy fixing on the wrist or clothes.



## DFT-400/420 SPECIFICATIONS

<b>Measuring Principle</b>	Two magnetic measuring principles: Fe: Magnetic-Flux/Hall Effect ref Fe* NFe: Eddy Current (DFT-420 only)
<b>Standards and Regulation</b>	DIN EN ISO 2808, ISO 2178, ASTM B 499, ASTM D 7091 (only DFT-420: ISO 2360)
<b>Probe Type</b>	Integrated or - optional - cable probe with 1m cable
<b>Measuring Range</b>	Fe: 0.0 – 5000µm or 0.0 – 3000µm. NFe: 0.0 – 3000µm (DFT-420 only)
<b>Metric System µm / mil</b>	Yes
<b>Measuring Interval</b>	Single measurement: 850ms
<b>Display Metric</b>	From 0.0 – 999 in µm, from 1000µm in mm
<b>Resolution</b>	1µm in the range up to 999µm, 0.01mm in the range from 1mm
<b>Accuracy</b>	± (2µm + 3% of the readings)
<b>Minimum Measuring Area</b>	Ø 25mm
<b>Minimum Curvature</b>	Convex: 5mm, concave: 25mm
<b>Minimum Substrate Thickness</b>	Fe: 0.2mm. NFe: 0.05mm (DFT-420 only)
<b>Display</b>	Graphic-LCD
<b>Temperature Range</b>	0 – 50°C
<b>Permitted Storage Temperature</b>	-10°C – 60°C
<b>Power Supply</b>	2 x Mignon Batteries: 1.5V (type AA alkaline)
<b>Dimensions (L x W x H in mm)</b>	100 x 60 x 27 (gauge with integrated probe)
<b>Weight including battery</b>	Gauge with integrated probe: 105g. Gauge with cable probe: 147g

Fe\* Measuring of non-ferromagnetic coatings on ferromagnetic substrate, for example measuring on steel - or iron-substrates.

NFe\* Measuring of non-ferromagnetic and electrically non-conductive coatings (insulating coatings) on non-ferromagnetic and electrically conductive substrate, for example measuring on aluminum-, zinc-, brass- and certain stainless (high-grade) steel-substrates.

Technical data subject to change without notice.

## DFT-400 DRY FILM THICKNESS GAUGE

The DFT-440 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness measurement, data storage, and analysis on ferrous and non-ferrous substrates. It is calibrated for life, features a patented probe design which allows for **integral or separate** use, and has an industry leading three year warranty.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – measuring the dry film thickness of the paint after the coating process is an invaluable tool to ensure that the thickness of the coating is as specified.

The DFT-440 Dry Film Thickness Gauge is ergonomic and light weight (127g) yet tough and reliable, and is powered by standard alkaline batteries. The easy to use back lit four button key pad is intuitive and leads the user through the available menu options. The back lit screen displays readings clearly and has the possibility to flip through 180° when the gauge is turned upside down.



In addition to a (constant) factory calibration, the DFT-440 offers two calibration processes that are useful during specific measuring tasks such as measurement on curvatures or small parts.

- A one-point calibration can optimise the probe's measuring accuracy with an expected coating thickness.
- A two point calibration can increase the probe's measuring accuracy in a certain coating thickness range.

Up to one hundred readings can be stored in the gauge and can be downloaded via a wireless connection (software available as option). Once downloaded, the data can be analysed and stored in Microsoft Excel.

The DFT-440 Dry Film Thickness Gauge features a patented probe design which allows for integral or separate use to access hard to reach areas. The probe features an industry-leading tip manufactured from ruby ensuring millions of fast, reliable and accurate readings. The gauge features a sleep mode which turns the unit off after a short period of inactivity. By placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

A wireless probe is available as a cost option. The wireless probe allows measurements to be taken at a distance of up to twenty metres from one or multiple gauge units allowing for readings to be taken in very hard to access areas as well as being simultaneously monitored and recorded on multiple gauges. The wireless probe is extremely small and light weight (30g) and can take up to 4000 measurements without recharging.

The DFT-440 is supplied in a foam filled hard plastic carry case with an additional soft plastic pouch for ease of transportation in the job site. Both the Gauge and the probe have hand-size straps allowing for easy fixing on the wrist or clothes.

Gauge model	DFT-440
Probe type	Integral + Separate
Units	µm/mil
Measurement resolution	0.1µm in the range below 100µm, 1µm in the range from 100 to 999µm, 0.01mm in the range from 1000µm
Operating temperature	0 to 50°C
Storage temperature	-10°C to 60°C
<b>Menu structure</b>	
Measuring Mode	Substrate selection FE/NFe automated
Measuring Range	Upper/lower limit
Memory Capacity	Up to 100 measurements
Statistics	Average/standard deviation/maximum/minimum

# DFT-440 DRY FILM THICKNESS GAUGE

Interchangeable probes/Probe type	Fe 2000µm	Fe 5000µm	NFe 2000µm	Dual Fe/NFe 2000µm	Dual Fe/ NFe NFe 5000µm/2000µm
<b>Measuring mode</b>	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic Magnetic flux/ Hall effect Fe*	Magnetic Eddy current NFe*	Magnetic Magnetic flux/ Hall effect Fe* Eddy current NFe*	Magnetic Magnetic flux/ Hall effect Fe* Eddy current NFe*
<b>According to standard</b>	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 BS 3900-C5 ASTM D 7091 DIN 50984 BS 5411 (3) ISO 2360 ASTM D 1400	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091
<b>Measuring range</b>	0 –2000µm	0 –5000µm	0 – 2000µm	Fe: 0 – 2000µm NFe: 0 – 2000µm	Fe: 0 – 5000µm NFe: 0 – 2000µm
<b>Measuring interval</b>	1500ms	1500ms	1500ms	1500ms	1500ms
<b>Measuring accuracy regarding automation standards</b>	(1µm + 2% of the reading)	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm	(1µm + 2% of the reading)	Fe: 0 – 5000µm NFe: 0 – 2000µm	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm
<b>Minimum measuring surface (mm x mm)</b>	20 x 20	20 x 20	20 x 20	20 x 20	20 x 20
<b>Minimum radius of curvature</b>	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm
<b>Minimum thickness of base material</b>	0.2mm	0.2mm	0.05mm	Fe: 0.2mm NFe: 0.05mm	Fe: 0.2mm NFe: 0.05mm
<b>Operation temperature</b>	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
<b>Storage temperature</b>	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C
<b>Power supply</b>	From gauge	From gauge	From gauge	From gauge	From gauge
<b>Dimensions (L x W x H in mm)</b>	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions
<b>Weight incl. batteries</b>	ca. 12g	ca. 12g	ca. 12g	ca. 12g	ca. 12g

Technical data subject to change without notice.

# DFT-441 DRY FILM THICKNESS GAUGE

The DFT-441 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness measurement, data storage, and analysis on ferrous and non-ferrous substrates. It is calibrated for life, features a patented probe design which allows for **integral or separate** use, and has an industry leading three year warranty.

The DFT-441 Dry Film Thickness Gauge is ergonomic and light weight (127g) yet tough and reliable, and is powered by standard alkaline batteries. The easy-to-use back lit four button key pad is intuitive and leads the user through the available menu options. The back lit screen displays readings clearly and has the possibility to flip through 180 degrees when the gauge is turned upside down.



In addition to a (constant) factory calibration, the DFT-440 offers two calibration processes that are useful during specific measuring tasks such as measurement on curvatures or small parts.

- A one-point calibration can optimises the probe's measuring accuracy with an expected coating thickness.
- A two point calibration can increases the probe's measuring accuracy in a certain coating thickness range.

Up to thirty thousand readings can be stored in up to 250 batches in the gauge before downloading via a wireless connection to the software provided as standard with the gauge. Once downloaded the data can be analysed and stored in Microsoft Excel.

When taking readings on very rough substrates, the average zero value can be stored in the gauge memory to ensure that the substrate condition does not affect the quality of the readings. Furthermore a unique "Combined" mode allows the simultaneous measurement of zinc plated and epoxy based coating on steel substrates – in this mode the gauge will display the two separate coatings as two separate values.

The DFT-441 Dry Film Thickness Gauge features a patented probe design which allows for integral or separate use to access hard to reach areas. Each probe features an industry-leading tip manufactured from ruby ensuring millions of fast, reliable and accurate readings. The gauge features a sleep mode which turns the unit off after a short period of inactivity. By placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

A wireless probe is available as a cost option. The wireless probe allows measurements to be taken at a distance of up to twenty metres from one or multiple gauge units, allowing for readings to be taken in very hard to access areas as well as being simultaneously monitored and recorded on multiple gauges. The wireless probe is extremely small and light weight (30g) and can take up to 4,000 measurements without recharging.

<b>Gauge model</b>	<b>DFT-441 - part no. 7864410</b>
<b>Probe type</b>	Integral + Separate
<b>Units</b>	µm/mil
<b>Measurement resolution</b>	0.1µm in the range below 100µm, 1µm in the range from 100 to 999µm, 0.01mm in the range from 1000µm
<b>Operating temperature</b>	0 to 50°C
<b>Storage temperature</b>	-10°C to 60°C
<b>Menu structure</b>	
<b>Measuring Mode</b>	FE/NFe automated, combined measurement
<b>Measuring Range</b>	Upper/lower limit, average
<b>Memory Capacity</b>	Up to 30,000 measurements in 250 batches
<b>Statistics</b>	Average/standard deviation/ maximum/minimum

# DFT-441 DRY FILM THICKNESS GAUGE

Interchangeable probes/Probe type	Fe 2000µm Part no. AB7864420	Fe 5000µm Part no. AB7864421	NFe 2000µm Part no. AB7864422	Dual Fe/NFe 2000µm Part no. AB7864423	Dual Fe/ NFe NFe 5000µm/2000µm Part no. AB7864424
<b>Measuring mode</b>	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic: Eddy current NFe*	Magnetic: Magnetic flux/ Hall effect Fe* Eddy current NFe*	Magnetic: Magnetic flux/ Hall effect Fe* Eddy current NFe*
<b>According to standard</b>	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 BS 3900-C5 ASTM D 7091 DIN 50984 BS 5411 (3) ISO 2360 ASTM D 1400	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091
<b>Measuring range</b>	0 – 2000µm	0 – 5000µm	0 – 2000µm	Fe: 0 – 2000µm NFe: 0 – 2000µm	Fe: 0 – 5000µm NFe: 0 – 2000µm
<b>Measuring interval</b>	1500ms	1500ms	1500ms	1500ms	1500ms
<b>Measuring accuracy regarding automation standards</b>	(1µm + 2% of the reading)	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm	(1µm + 2% of the reading)	Fe: 0 – 5000µm NFe: 0 – 2000µm	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm
<b>Minimum measuring surface (mm x mm)</b>	20 x 20	20 x 20	20 x 20	20 x 20	20 x 20
<b>Minimum radius of curvature</b>	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm
<b>Minimum thickness of base material</b>	0.2mm	0.2mm	0.05mm	Fe: 0.2mm NFe: 0.05mm	Fe: 0.2mm NFe: 0.05mm
<b>Operation temperature</b>	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
<b>Storage temperature</b>	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C
<b>Power supply</b>	From gauge	From gauge	From gauge	From gauge	From gauge
<b>Dimensions (L x W x H in mm)</b>	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions
<b>Weight incl. batteries</b>	ca. 12g	ca. 12g	ca. 12g	ca. 12g	ca. 12g
Technical data subject to change without notice.					



## WFT-450/455 WET FILM THICKNESS COMB

The WFT-450 and WFT-455 Wet Film Thickness Combs can be used to quickly and economically measure the paint thickness while the coating is wet.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – assessing the wet film thickness of the paint during the coating process is an invaluable tool in ensuring that the thickness of the coating is as specified.

In order to achieve an accurate reading, the wet film comb is placed onto the substrate while the paint is still wet ensuring that the flat end plates are pressed against the substrate. By assessing which teeth have touched the coating the thickness of the paint can be assessed.

The WFT-450 Wet Film Thickness Comb is a precision machined Hexagonal/Octagonal precision measuring comb made of heavy stainless steel for high accuracy and is available with a wide range of measurements in both metric and imperial scales. After use, solvents can be used to clean the instrument to ensure the accuracy of future readings. The comb is supplied in a protective wallet.

### Complies with International Standards

ISO 2808-7B, BS 3900-C5-7B, ASTM D 4414-A, NF T30-125.

The WFT-455 Wet Film Thickness Comb is manufactured in plastic and is designed for economical one-time use. The comb can be kept as a permanent record of the wet film thickness once the paint has been allowed to dry on the teeth. The comb measures a wide range of measurements in both metric and imperial scales.



Part no.	Product	Range Metric	Range Imperial	No. of teeth	Range of teeth	Conformance Cert. part no.
AB7864500	WFT-450 (stainless steel)	25-2000µm	1-78mils	36	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000µm	7864020
AB7864550	WFT-455 (1 pc.)	50-900µm	2-36mils	18	2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32, 36	n/a
AB7864551	WFT-455	50-900µm	2-36mils	18	2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32, 36	n/a

# HAT-500 HYDRAULIC ADHESION TESTER

The HAT-500 is a reliable method of testing the adhesion bond strength of a dry coating onto the substrate to which it is applied.

Correct adhesion is critical in ensuring that a paint system will perform as intended by the manufacturer. Insufficient adhesion can indicate incorrect substrate preparation or paint application.

To measure the adhesion, a dolly is glued onto the painted substrate, a force is applied onto the centre of the dolly by a hydraulically loaded pin, the maximum force applied is recorded on the pressure gauge by the reset needle. Should the dolly meet the minimum adhesion required it can be removed without disturbing the coating by using the heated dolly remover. Should the pressure overcome the adhesion of the dolly onto the surface, the pressure will be recorded on the gauge. Dollies can be glued in place and left indefinitely as part of a scheduled maintenance programme.

The pressure gauge is swivel-mounted to allow testing in any position and the flexible mid-section allows easy access. Adhesion on the internal and external surfaces of pipes can be tested using curved dollies.

The HAT-500 is supplied in a hard plastic foam filled carry case complete with 5 flat dollies, adhesive, dolly remover.

### Complies with International Standards

ISO 16276-1, ISO 4624, ASTM D 4541, NF T30-606.



Part no.	Head type	Operation range (PSI)	Operation range MPa	Accuracy	Cal cert part no.
AB7865000	HAT-500 - Standard	0-2600	0-18	±1%	AB7865005
AB7865001	HAT-500 - Right Angle	0-2600	0-18	±1%	AB7865005

# HAT-500 HYDRAULIC ADHESION TESTER

## Accessories

Part no.	Description	Pipe Size Metric	Pipe Size Imperial	Use with HAT-500 model	Information
AB7865020	HAT-500 Concave Dolly	51mm	2"	7865000/7865001	For external pipe testing
AB7865021	HAT-500 Concave Dolly	76mm	3"	7865000/7865001	
AB7865022	HAT-500 Concave Dolly	102mm	4"	7865000/7865001	
AB7865023	HAT-500 Concave Dolly	152mm	6"	7865000/7865001	
AB7865024	HAT-500 Concave Dolly	203mm	8"	7865000/7865001	
AB7865025	HAT-500 Concave Dolly	254mm	10"	7865000/7865001	
AB7865026	HAT-500 Concave Dolly	305mm	12"	7865000/7865001	
AB7865027	HAT-500 Concave Dolly	356mm	14"	7865000/7865001	
AB7865028	HAT-500 Concave Dolly	406mm	16"	7865000/7865001	
AB7865029	HAT-500 Concave Dolly	457mm	18"	7865000/7865001	
AB7865030	HAT-500 Concave Dolly	508mm	20"	7865000/7865001	
AB7865031	HAT-500 Concave Dolly	610mm	24"	7865000/7865001	
AB7865032	HAT-500 Concave Dolly	762mm	30"	7865000/7865001	
AB7865033	HAT-500 Concave Dolly	914mm	36"	7865000/7865001	
AB7865034	HAT-500 Convex Dolly	152mm	6"	7865001	
AB7865035	HAT-500 Convex Dolly	203mm	8"	7865001	For internal pipe testing
AB7865036	HAT-500 Convex Dolly	254mm	10"	7865001	
AB7865037	HAT-500 Convex Dolly	305mm	12"	7865000/7865001	
AB7865038	HAT-500 Convex Dolly	356mm	14"	7865000/7865001	
AB7865039	HAT-500 Convex Dolly	406mm	16"	7865000/7865001	
AB7865040	HAT-500 Convex Dolly	457mm	18"	7865000/7865001	
AB7865041	HAT-500 Convex Dolly	508mm	20"	7865000/7865001	
AB7865042	HAT-500 Convex Dolly	610mm	24"	7865000/7865001	
AB7865043	HAT-500 Convex Dolly	762mm	30"	7865000/7865001	
AB7865044	HAT-500 Convex Dolly	914mm	36"	7865000/7865001	
AB7865045	HAT-500 Flat Dolly			7865000/7865001	For substrate testing

## Spare parts

Part no.	Description
AB7865046	Adhesive
AB7865047	Spare dolly plug
AB7865048	Heated dolly remover

# CHC-520 CROSS HATCH CUTTER

The CHC-520 Cross Hatch Cutter tests the adhesion of a dry coating onto the substrate to which it is applied.

Correct adhesion is critical in ensuring that a paint system will perform as intended by the manufacturer. Insufficient adhesion can indicate incorrect substrate preparation or paint application.

To measure the adhesion, two sets of parallel cuts at ninety degrees to each other are made with a knife resulting in a pattern of similar sized squares. This area can be assessed by using a hard brush or adhesive tape and the results compared with the supplied chart. Different knives are available to test different coating thicknesses and substrates according to different standards.

The CHC-520 Cross Hatch Cutter is supplied in a hard plastic foam-filled carry case complete with hard brush, adhesive tape, illuminated magnifier. Depending on your application, a knife must be ordered separately.



## Complies with International Standards

ISO/DIN 2409, ASTM D3359.

### AB7865200

### CHC-520 CROSS CUT ADHESION TESTER KIT CONTAINS

- Soft grip handle
- Nylon Brush
- Illuminated Magnifier 2.5x
- Adhesion tape, single roll, adhesion to steel 4.3N/cm

Excl. knife, must be ordered separately

### CHC-520 knife options acc. to DIN-ISO, 6 teeth

AB7865210	Teeth distance 1mm
AB7865211	Teeth distance 2mm
AB7865212	Teeth distance 3mm

### CHC-520 knife options acc. to ASTM, 11 teeth

AB7865213	Teeth distance: 1mm
AB7865214	Teeth distance: 1.5mm

### OPTIONAL ITEMS / SPARE PARTS

AB7865230	Adhesion tape, single roll, adhesion to steel 4.3N/cm
AB7865231	Adhesion tape, single roll, adhesion to steel 7.6N/cm
AB7865232	Nylon brush for Cross cut adhesion test
AB7865233	Illuminated magnifier 2.5x

### CHOOSE THE RIGHT CUTTER

#### ISO 2409 :2003:

- 1mm spacing for coatings up to 60µm on hard substrates
- 2mm spacing for coatings up to 60µm on soft substrates
- 2mm spacing for coatings from 61 to 120µm on both hard and soft substrates
- 3mm spacing for coatings from 121µm to 250µm on both hard and soft substrates

#### ASTM D3359:

- 1 mm spacing for coatings up to 50µm
- 1.5 mm spacing for coatings from 50 to 125µm

# HOD-600 DC HOLIDAY TESTER

The HOD-600 Holiday Tester is used to test the integrity of a coated surface by identifying pin holes and flaws in the coating.

Pin holes or flaws in the coating may lead to premature failure of the coating – early identification allows for corrective action to be taken.

The HOD-600 Holiday Tester identifies pin holes and flaws in the coating by passing a voltage through a brush electrode which is moved over the coated surface – the voltage will spark through a pin hole or flaw to the substrate identifying the area for closer inspection. On identification of a pin hole or flaw, an audible alarm will sound and a red indicator will flash on the unit. The application of the test is safe and does not cause burn marks or damage to the coating due to the test voltage being of high impedance.

The HOD-600 Holiday Tester can be carried by the operator using the neck strap provided due to its light weight and portable design.

The HOD-600 Holiday Tester is supplied in a hard plastic foam-filled carry case complete with high voltage probe, brush electrode, earthing cable, and neck strap.

### Complies with International Standards

ISO 2746, BS 1344-11, ASTM G 6, ASTM G 62, ASTM D4787, ASTM D5162, NACE RP 04901, NACE RP 0274, NACE RP 0188, JIS G3491, JIS G3492, AS 3894.1, EN14430, ANSI/AWWA C 213.

A calibration certificate traceable to UKAS is available as a cost option upon request.



Part no.	Range	Approx. maximum test thickness	Resolution	Accuracy	Cal cert part no.
AB7866000	HOD-600 - 0.5-6kV	1500µm (60mils)	0.01kV	±1%	7866005
AB7866001	HOD-600 - 1-20kV	5000µm (200mils)	0.1kV	±1%	7866005
AB7866002	HOD-600 - 1-30kV	7500µm (300mils)	0.1kV	±1%	7866005

The HOD-600 is supplied with a European style plug; other plug options available upon request.

# HOD-600 DC HOLIDAY TESTER

Accessories					
Part no.	Product	Size Metric	Size Imperial	Extension Size	Information
AB7866030	Extension rod	500mm	20"		To extend electrodes for applications where a long reach is required.
AB7866031	Extension rod	1000mm	40"		
AB7866040	Broad Brush 45° angle	200mm	8"	200mm/8"	Brass-filled Brushes for the testing of coatings on large flat areas.
AB7866041	Broad Brush 45° angle	500mm	20"	200mm/8"	
AB7866050	Conductive Rubber 180° In Line	200mm	8"	200mm/8"	Conductive Rubber Electrodes for the testing of coatings on large flat areas.
AB7866051	Conductive Rubber 180° In Line	450mm	18"	200mm/8"	
AB7866060	Circular Brush and Assembly	51mm	2"	200mm/8"	Conductive Rubber Electrodes for the testing of coatings on large flat areas.
AB7866061	Circular Brush and Assembly	76mm	3"	200mm/8"	
AB7866062	Circular Brush and Assembly	102mm	4"	200mm/8"	All Brushes come complete with the connector assembly.
AB7866063	Circular Brush and Assembly	152mm	6"	200mm 8"	
AB7866064	Circular Brush and Assembly	203mm	8"	200mm/8"	
AB7866065	Circular Brush and Assembly	254mm	10"	200mm/8"	
AB7866066	Circular Brush and Assembly	305mm	12"	200mm/8"	
AB7866070	Rolling Spring	102mm	4"	Order SA490	
AB7866071	Rolling Spring	152mm	6"	Order SA490	3/4" phosphor bronze Rolling Spring for the testing of coatings on the external diameter of pipes.
AB7866072	Rolling Spring	203mm	8"	Order SA490	
AB7866073	Rolling Spring	254mm	10"	Order SA490	All Rolling Springs require the AB7866084 Rolling spring connector assembly.
AB7866074	Rolling Spring	305mm	12"	Order SA490	
AB7866075	Rolling Spring	356mm	14"	Order SA490	One assembly can be used on multiple Rolling Springs.
AB7866076	Rolling Spring	406mm	16"	Order SA490	
AB7866077	Rolling Spring	457mm	18"	Order SA490	The 7866085 Rolling spring pusher assembly is suitable for larger Rolling Springs, to assist the travel of the spring along the pipe.
AB7866078	Rolling Spring	508mm	20"	Order SA490	
AB7866079	Rolling Spring	610mm	24"	Order SA490	
AB7866080	Rolling Spring	762mm	30"	Order SA490	
AB7866081	Rolling Spring	914mm	36"	Order SA490	
AB7866082	Rolling Spring	1067mm	42"	Order SA490	
AB7866083	Rolling Spring	1220mm	48"	Order SA490	
AB7866084	Rolling Spring Connector Assembly			200mm/8"	
AB7866085	Rolling Spring Pusher Assembly			200mm/8"	



# PHD-620 PIN HOLE DETECTOR

The PHD-620 Pin Hole Detector is used to test the integrity of a coated surface by identifying pin holes and flaws in the coating.

Pin holes or flaws in the coating may lead to premature failure of the coating – early identification allows for corrective action to be taken.

The PHD-620 Pin Hole Detector identifies pin holes and flaws in the coating by passing a selectable voltage of 9volts, 67.5volts, or 90volts, through a wet sponge which is moved over the coated surface. The voltage will make a path through the wetting agent to the pin hole or flaw in the substrate, an audible alarm will sound and a red light will flash on the unit identifying the area for closer inspection. The application of the test is safe and does not cause burn marks or damage to the coating.

The PHD-620 Pin Hole Detector can be carried by the operator due to its light weight and portable design.

The PHD-620 Pin Hole Detector is supplied in a hard plastic foam-filled carry case complete with 150mm broad sponge assembly, and earthing cable.

A calibration certificate traceable to UKAS is available as a cost option on request.

### Complies with International Standards

BS EN ISO 8289 A, BS 7793-2, ASTM D-5162, ASTM G62-87, ASTM G6-83, NACE RP 0188



Part no.	Range	Maximum test thickness 9V	Maximum test thickness 67.5V	Maximum test thickness 90V	Accuracy	Sponge size	Cal. cert. part no.
AB7866200	9V/67.5V/90V	300µm 12mils	500µm 20mils	500µm 20mils	±1%	150 x 100 x 30mm	AB7866211
<b>Accessories</b>							
Part no.	Product	Size Metric	Size Imperial	Extension size	Information		
7866210	Extension rod	500mm	20"		To extend sponges for applications where a long reach is required.		
7866220	Extension rod	1000mm	40"				
7866230	Circular sponge and assembly	50mm	2"	200mm/8"	Circular sponges for the testing of internal diameters of pipes.		
7866240	Circular sponge and assembly	100mm	4"	200mm/8"			
7866250	Flat sponge and assembly	200mm	8"	200mm/8"	For coatings on large flat areas.		
7866260	Earth cable	10m			Larger testing area earth cables.		

# STEEL SURFACE FINISHING STANDARDS

	SA1	SA2	SA2 1/2	SA3																													
	<b>BRUSH-OFF BLAST CLEANING</b> Removal of loose mill scale, loose rust and loose paint, to a degree hereafter specified, by the impact of abrasives propelled through nozzles or by centrifugal wheels. It is not intended that the surface shall be free of all mill scale, rust and paint. The remaining mill scale, rust and paint should be tight and the surface should be sufficiently abraded to provide good adhesion and bonding of paint. A brush-off blast cleaned surface finish is defined as one from which all oil, grease, dirt, rust scale, loose mill scale, loose rust and loose paint or coatings are removed completely but tight mill scale and tightly adhered rust, paint and coatings are permitted to remain provided that all mill scale and rust have been exposed to the abrasive blast pattern sufficiently to expose numerous flecks of the underlying metal fairly uniformly distributed over the entire surface.	<b>COMMERCIAL BLAST CLEANING</b> Removal of partial mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree specified. A commercial blast cleaned surface finish is defined as one from which oil, grease, dirt, rust scale and foreign matter have been completely removed from the surface and all rust, mill scale and old paint have been completely removed except for slight shadows, streaks, or discolouration caused by rust stain, mill scale oxides or slight residues of paint or coating that may remain if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discolouration, slight staining or tight residues mentioned above.	<b>NEAR-WHITE BLAST CLEANING</b> Removal of nearly all mill scale, rust, rust scale, paint, or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree hereafter specified. A near-white blast cleaned surface finish is defined as one from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint or other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks or slight discolourations caused by rust stain, mill scale oxides, or light, tight residues of paint or coating that may remain. At least 95% of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discolouration mentioned above.	<b>WHITE METAL BLAST CLEANING</b> Removal of all mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by the centrifugal wheels. A white metal blast cleaned surface finish is defined as a surface with a grey-white, uniform metallic colour, slightly roughened to form a suitable anchor pattern for coatings. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.																													
<p>STEEL SURFACE LARGELY COVERED WITH ADHERING MILL SCALE BUT LITTLE, IF ANY, RUST.</p>	<p>STEEL SURFACE WHICH HAS BEGUN TO RUST AND FROM WHICH THE MILL SCALE HAS BEGUN TO FLAKE.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, BUT WITH SLIGHT PITTING VISIBLE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL PITTING IS VISIBLE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL PITTING IS VISIBLE UNDER NORMAL VISION.</p>																													
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## ACHIEVING THE BEST FINISH

The finish surface achieved by abrasive blast cleaning depends upon the original surface condition as well as the type of abrasive blasting equipment, size, hardness, type and abrasive shape.

**THE ORIGINATING SURFACE CONDITION OF STEEL IS:**

- ▶ Steel surface largely covered with adhering mill scale by little, if any, rust.
- ▶ Steel surface which has begun to rust and from which the mill scale has begun to flake.
- ▶ Steel surface on which the mill scale has rusted away or from which it can be scraped, but with slight pitting visible under normal vision.

**SURFACE CLEANLINESS IS DIVIDED INTO FOUR GRADES:**

- ▶ SA 1 Brush off.
- ▶ SA 2 Commercial.
- ▶ SA 2-1/2 Near white metal.
- ▶ SA 3 White Metal.

Besides cleanliness of the steel, consideration needs to be given to the etch or profile roughness created by the impact of the abrasive on the steel surface.

**THE SUBSTRATE PROFILE IS REGULATED BY:**

- ▶ Shape, type and grading of abrasive.
- ▶ Blasting method and velocity of abrasive impaction.
- ▶ Steel condition prior to blasting.

The etched profile of the surface enables adhesion of the protective paint coatings. If the level at which this is achieved is too severe it will cause a waste of paint. If too light, it may cause a lack of adhesion.

The best method of obtaining a profile specification is to ensure the correct blasting equipment and method are combined with the correct abrasive. Once these requirements have been decided upon, the selection of method, equipment and training of personnel should be instigated.

Equipment used for surface preparation must be extremely reliable and simple to use. Operation information and training should be up-to-date.

Airblast has become the industry standard for manufacturing and supplying surface finishing equipment worldwide through a network of branch-offices as well as distributors.

World-leading Surface Preparation and Finishing Solutions

# Air Treatment



# A-SERIES VENTURI BLOWERS

Airblast Eurospray Venturi Air Blowers are a perfect solution for ventilating or extracting hazardous and explosive vapors from tanks, as well as a variety of other functions. Additionally, they can be used to cool down machinery or workers. Their function is to accept high pressure air from a compressor and, using the Venturi principle, create a suction trough at the base of the unit. Maximum air pressure: 140psi.

### Construction:

- Constructed with galvanised steel
- Single piece cast aluminium inlet housing
- Sturdy steel galvanised steel diffuser
- Static ground attached to base of unit
- Steel handle
- Quick coupling inlet connection
- Multiple inlet ports



Part no.	Description
AB8850002	A-1000 Venturi Blower
AB8850003	A-1200 Venturi Blower
AB8850006	A-2900 Venturi Blower
AB8850008	A-4100 Venturi Blower
AB8850009	A-6200 Venturi Blower

### SAFETY PRECAUTIONS

An electric ground or static ground is attached to the base of all air blowers. When using this air blower in a volatile atmosphere, attach a ground wire to discharge any static electricity, preventing a build-up of static electricity. Airblast Eurospray pneumatic air blowers have no moving parts and are ideal for venting hazardous areas. The bases are made from a high quality aluminium alloy. Aluminium scraped across rusty steel can sometimes cause a smear. A heavy smear of aluminium on steel (being struck with some object) can cause an incendiary spark. Take precautions not to drag the base on steel tanks, etc.

While there are no moving parts to the air blowers, all of the performance ratings in this brochure are based on a unit that has a clean air reservoir, and nozzle jets that are of the proper diameter and not plugged in any way. Care should be taken to prevent clogging of the nozzle jets and a periodic cleaning with a steam cleaner would be appropriate maintenance. Secure the air blower in place prior to turning on the air supply or it may move from its intended position.

Air flow						
Model	Air consumed (CFM)			Total air flow (CFM)		
	60 psiG	80 psiG	100 psiG	60 psiG	80 psiG	100 psiG
ABA-1000	31	41	51	863	1076	1205
ABA-1200	31	41	51	1135	1308	1465
ABA-2900	60	81	101	2560	3020	3698
ABA-4100	108	142	178	4215	4810	5435
ABA-6200	189	252	380	6182	7304	8220

Dimensions						
Model	Overall length (mm)	Diameter of base of base (mm)	Diameter top of horn (mm)	Inlet size (inch)	Bolt circle diameter (mm)	Net weight (kg)
ABA-1000	426	186	153	½	167	2.5
ABA-1200	775	186	178	½	167	4
ABA-2900	1124	286	318	1	267	10
ABA-4100	1170	365	362	1	346	17
ABA-6200	1220	432	400	1	394	20

# AB-JF JET FANS

The Airblast Eurospray Jet Fan is a four-bladed vaneaxial fan which operates through a high velocity jet of compressed air which is ejected from the trailing edge of the blade. This results in the forward rotation of the fan wheel – just like a jet plane is pushed forward by the high-velocity jet ejected from the rear of the jet engine.



### Features:

- Use for general ventilation in any location where compressed air is available.
- Suitable for ventilation of tanks, process vessels, or other confined areas for the removal of hazardous fumes or contaminated air from welding, blasting and other operations.
- Rated operating pressure 3–8bar (40–110psi).
- Design allows for lower RPMs while still moving significant air volumes.
- Bearings are repacked with a hi-tech synthetic lubricant for longer life.
- Propeller balanced by removing material from end of blades.
- Use as blower or exhauster.
- Electro polished stainless steel fan guard.
- Heat treated to T6 aircraft aluminium specifications.
- Super-duty, high quality, high pressure air seal for longer service.
- Six guide vanes to smooth air flow eliminating turbulence.

### Construction:

- Fan blade and housing: Spark resistant 356 aluminium heat treated to T6 aircraft aluminium specification.
- Fan Guards: Stainless steel; meets OSHA requirements.
- Shaft: Stainless steel.
- Locking mechanisms: Stainless steel lock shield, bear hug retainer.
- Bearings: Premium ball bearings sealed with a high-performance synthetic grease.
- Flanges: Matches 20" and 24" American Petroleum Institute tank opening.
- Convertible design: Use for supply or turn it around and use as an exhauster; flange mountings are identical on both sides.

Part no.	Description
AB8850090	AB-JF 20 Jet Fan
AB8850007	AB-JF 24 Jet Fan

Optional Description
20" API Flange Plate (508mm)
24" API Flange Plate (609.66mm)

### Performance CFM against static pressure

Compres. air (psiG)	Average RPM	Air usage (CFM)	Capacity (CFM) Against static pressure (IN. WC)									
			0	1	2	3	4	5	6	7	8	9
<b>AB-JF20</b>												
40	2080	60	5920	3580	1650	220	0					
60	2695	114	7600	5870	3860	2350	1200	200	0			
80	3225	186	9100	7730	6000	4410	3180	2140	1190	270	0	
100	3670	292	10420	9200	7850	6260	4770	3650	2680	1850	1070	350
<b>AB-JF24</b>												
40	1565	76	8104	2391	0							
60	2053	147	11005	7312	2649	0						
80	2570	225	12848	9969	6223	3397	1225	0				
100	3138	338	16136	13975	11295	8350	6326	4638	2950	1261	0	

# COMPRESSED AIR AFTERCOOLERS

Compressed-air conditioning is indispensable for ensuring fault-free performance of blasting and paint spraying equipment as well as for compressed air tools. Conditioned compressed air contributes to improving the quality of blasted surfaces since most of the oil and water have been removed from the compressed air. Conditioned air improves productivity, reduces maintenance and lowers operating costs.

## Air-Cooled Compressed Air After-Coolers

Airblast Eurospray air-cooled aftercoolers utilize free and readily available atmospheric air as the cooling medium. The hot, moisture laden compressed air is effectively treated to reduce and eliminate the moisture load on downstream equipment. The units are available as electrically or pneumatically operated models and are supplied complete with a moisture separator and oiler for pneumatic motors, and are fitted in a heavy duty transport frame.

## Compressed Air Filters

Airblast Eurospray filters protect compressed air dryers, equipment, instrumentation and processes by removing compressor oils, dirt, rust and other types of contaminants. We supply air filters of various types; ceramic filters capable of filtering up to 3 microns and fibre membrane filters for filtering up to 0.01 microns. All filter elements are designed and built to provide maximum reliability and service life at the lowest possible pressure drop.

## Capacities are based upon the following conditions:

Ambient temperature: 21°C–35°C

Working pressure: 7bar (maximum 12bar)

Rel. humidity: 60%

Air inlet temperature: 120°C

Delta T: 9°C (above ambient temperature)



Art. nr.	Model	Nominal capacity (m <sup>3</sup> /min.)	Air consumption (lpm)
AB5082000	ABAC-30 PN	3	250
AB5082500	ABAC-40 PN	4	300
AB5083500	ABAC-65 PN	6	450
AB5084000	ABAC-80 PN	8	500
AB5084500	ABAC-120 PN	12	600
AB5085000	ABAC-160 PN	16	750
AB5085500	ABAC-200 PN	20	750
AB5086000	ABAC-250 PN	25	950



## DC-6, DC12 AND DC-20 MOBILE DUST COLLECTORS

Compact, transportable, flexible and well designed – these are the main features of the Airblast Eurospray mobile dust collection systems, either standard or designed specifically for the job on hand. A complete range of easy-to-transport filter units, cartridge or bag type for use on shipyards, bridges or for many other blast cleaning operations. Most popular sizes are suitable for 6000, 12000 and 20000 cubic metres per hour.

### Operating principle

Dust laden air enters through the inlet plenum of the collector, where heavy particles fall immediately into the hopper. As the air flows through the filter cartridges, dust is deposited on the outside of the filtering media. The filter cartridges are cleaned automatically and continually without interrupting the operation of the dust collector. An adjustable timer controls the cycle-time.

Solenoid valves introduce jets of high-pressure air into each pair of cartridges in turn, through the Venturi opening above each cartridge.

The resulting reverse airflow cleans the filter cartridges. Dust removed from the filter surface settles into the hopper. As each pair of filter cartridges is cleaned in succession, the remaining stay in operation. Extremely high dust loading is handled easily.

Further complete with electrical panel with automatic switch controllers, main switch, signalling lamps and control buttons for one ventilator and control unit for cartridge cleaning valves.



	DC-6	DC-12	DC-20
Exhaust capacity (m <sup>3</sup> /hr)	6000	12000	20000
Static pressure (Pa)	2000	2000	3000
Electric motor			
(kW)	5.5	12	30
(Volt)	400	400	400
(Phase)	3	3	3
(Hz)	50	50	50
Filter cartridges (pcs.)	6	12	20
Filter area (m <sup>2</sup> )	93.6	187.2	312
Filter material	Polyester fabric Type NA – 806	Polyester fabric Type PE – 806	Polyester fabric Type NA – 806
Filter percentage (%)	99.9	99.9	99.9
Max. dust emission (mg/nm <sup>3</sup> )	<3	<3	<3
Collecting bags (pcs.)	2	4	4
Connection (Ø mm)	1 x 300	2 x 300 w/regulating valve	3 x 300 w/regulating valve
Cleaning air pressure	Continuous by compressed air max. 5bar		
Nr. of solenoid valves	6 (1" G)	4 (1½" G)	8 (1½" G)
Pulsation pressure (bar)	±4	±5	±5
Cycle time	Adjustable		
Sequence	1 cartridge simultaneous	3 cartridges simultaneous	2 or 3 cartridges simultaneous
Inspection hatch	1 pc.	2 pcs.	1 pc.
Weight (kg)	± 900	± 1260	± 2300
Dimensions			
Total length (mm)	2300	3350	4500
Width (mm)	1150	2050	2000
Height (mm)	2150	2350	2400

# DC-12/ATEX MOBILE DUST COLLECTOR

Mobile "explosion proof" cartridge dust-filter unit suitable for dust extraction during metallisation with 85/15 zinc aluminium wire or 100% zinc made of steel sheet 3mm reinforced with steel profiles.

## Consisting of:

- Complete ATEX Explosion-proof cartridge dust-filter suitable for dust-extraction during metallisation with 85/15 zinc/aluminium wire and blasting. Max. KST 250 bar·m/s.
- Explosion panel positioned on top of the filter unit.
- Directly driven ventilator suitable for zone 21.
- Ventilator is provided with an encasing for noise reduction, Noise level approx. 72dbA.
- Ducting including back pressure valve and special pre-separator.
- Air exhaust is including silencer.
- The complete installation is grounded, ground terminal will be provided by the customer; connection close to the filter unit.



## Mobile Dust Collectors

### DC-12 ATEX

Exhaust capacity (m <sup>3</sup> /hr)	6.000
Max. KST-value (bar·m/s)	250
Total pressure (Pa)	3200
Electric motor	
(kW)	7.5
(Volt)	400/690
(Hz)	50
Fan	EX II 3D T 80°C – directly driven
Filter cartridges (pcs.)	12
Filter area (m <sup>2</sup> )	187.2
Filter material	anti static
Filter category	BIA category M
Filter percentage (%)	99.9
Max. dust emission (mg/nm <sup>3</sup> )	<0.2
Cleaning	automatic pressure air; max. 6bar
Hose connection (Ø mm)	300
Cleaning pressure (bar)	±5
Sequence	adjustable
Filter percentage (%)	99.9
Pneumatic connection	½"
Dust collecting (drum in ltr)	50
Weight (kg)	±1,150
Dimensions	
Total length (mm)	4410
Width (mm)	1580
Height (mm)	2440

World-leading Surface Preparation and Finishing Solutions

# Material Handling





## ABVAC PORTABLE VACUUM RECOVERY

The AbVac is an electric-powered suction unit mounted onto a rigid stand equipped with retractable legs. The unit is designed for the collection of anything from dust, up to 50mm debris into a bulk bag and is ideal for both mobile use and for fixed installations.

The retractable legs make it easy to move around and they allow the discharge outlet height to be adjusted to fit any size bulk bag. Its transportability means that the unit is mostly used as a free-standing suction unit with the connection of a 75mm or 100mm hose. However, it is also suitable for fixed installations connected to a fixed installed pipe system with multiple suction outlets.

### Optimal Solution

The AbVac requires no compressed air and offers huge airflow per HP. The unit's high suction capacity, together with its flexible discharge system, makes it very useful for a wide range of clean-up applications.

Due to its flexibility, the AbVac unit gets access to most areas where cleaning needs to be carried out, increasing material recovery rates usually limited by long runs of hose. The unit is easily maneuvered using a standard forklift truck or crane.

The AbVac unit is also much quicker and much safer than the back-breaking work of recovering material manually and can significantly reduce labor costs.

### Why AbVac?

- A robust unit for temporary mobile use.
- Automatic bulk bag filling of collected material.
- Filter system for dry and moist material.
- Automatic ATM filter cleaning system, without compressed air.
- Complete start/stop and controls system.
- Compact design and retractable legs offer maximum transportability.
- Can be placed in the exact location needed using a forklift.
- Easy height adjustment to suit bulk bags of various sizes.
- Improved health and safety and lower labor costs.
- Various options of safety filters, including HEPA filters.



# ABVAC PORTABLE VACUUM RECOVERY

## Operation

The vacuumed material is first separated in a specially designed fall chamber hopper with inlet wear protection. In this section all heavier and/or larger material will fall under gravity into the bottom of the hopper. From this section the air stream will continue to the main filter system where the remaining fine airborne dust will be separated. Collected material from both the above sections is commonly collected in the conical hopper.

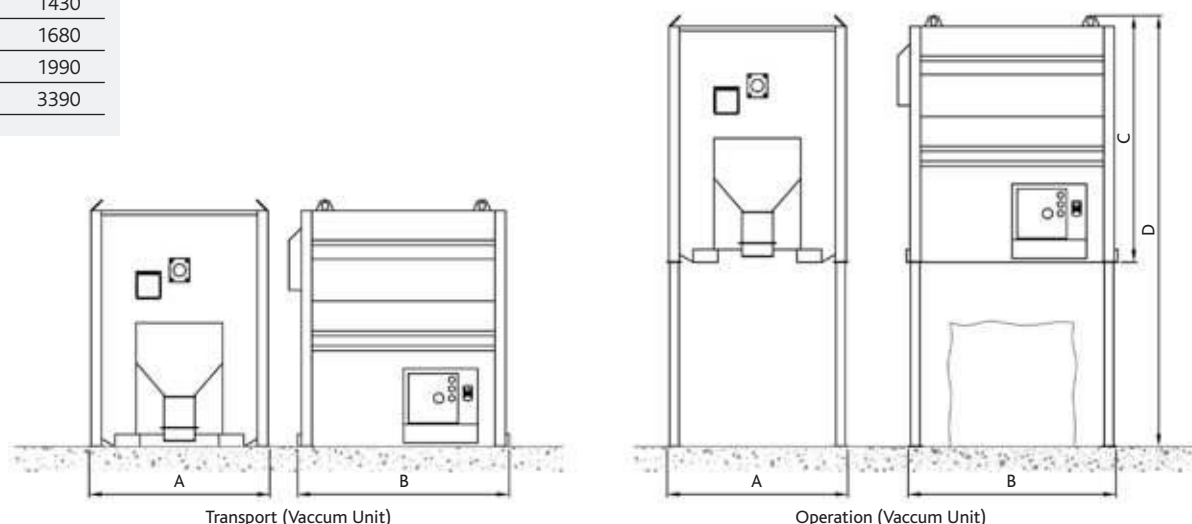
Discharge of material is made via the automatically operated balance valve at the bottom of the hopper. Discharge is executed parallel to each filter cleaning sequence, which normally takes place every 30 minutes. Filter cleaning is automatic and executed by a filter cleaning valve (ATM) located between the filter and the vacuum pump. When this valve is activated and opens, a counter flow of air is sucked in backwards through the filter bags, thus cleaning all filter bags simultaneously in a very short period. Thereafter the valve is closed again.

Cleaning intervals are normally every 30 minutes, and last for approximately 20 seconds, after which, full vacuum is restored. This valve also ensures that when the unit is started, it starts unloaded and vacuum load is introduced approximately 10 seconds after Star/Delta sequence is ended. All functions for the operation of the unit are controlled from the built-in electrical panel.

Available with a wide range of flexible hoses, tools and extensions.



Dimensions	mm
A	1430
B	1680
C	1990
D	3390



# AIRVAC PORTABLE VACUUM RECOVERY SYSTEM

The Airblast Eurospray AIRVAC is a robust, compact, highly efficient, pneumatic recovery unit.

## Features

The AIRVAC is capable of recovering spent abrasives or any other form of solid materials, ranging in size up to 20mm over a distance of up to 30m. The unit is fully air operated and only requires 250CFM of air at 85psi pressure (7m<sup>3</sup>/min. at 5.8bar). No other form of power is required to operate the unit. A simple modification converts the AIRVAC into a ventilation unit for ducting air from tanks etc.

## Accessories

A full range of accessories is available, such as:

- suction and material conveying hoses suitable for conveying all bulk materials and blasting media.
- reinforced and flexible hose for light cleaning.
- PVC vacuum hose for industrial cleaning.
- light rubber hose for the suction of abrasive materials and durable rubber hose for heavy duty suction and retrieval.

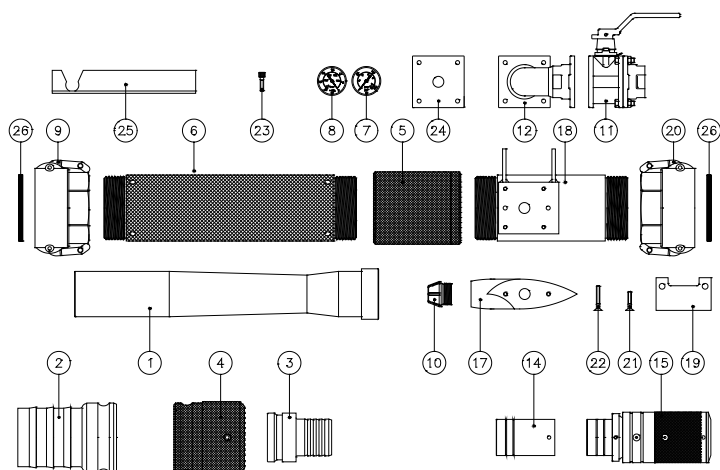
In addition a full range of couplings, connectors, suction hose manifolds complement the range.



Airvac Mark III assembly	
Part no.	AB3064000
Weight	27kg

Airvac optional accessories	
Part no.	Description
AB2183000	2½" (62mm) antistatic flexible plastic hose
AB2184000	4" (100mm) antistatic flexible plastic hose



Airvac – Parts list			
Item	Part no.	Description	Qty
01	AB3065000	AV-1 Venturi tube	1
02	AB3066000	AV-2 Discharge hose coupling	2
03	AB3067000	AV-3 Suction hose coupling insert	1
04	AB3068000	AV-4 Suction hose coupling	2
05	AB3069000	AV-5 Mixing chamber	1
06	AB3070000	AV-6 Venturi sheath	1
07	AB3071000	AV-7 Pressure gauge	1
08	AB3072000	AV-8 Vacuum gauge	1
09	AB3073000	AV-9 Discharge coupler	2
10	AB3074000	AV-10 Nozzle	2
11	AB3075000	AV-11 Air valve	1
12	AB3076000	AV-12 Manifold assembly	4
13	AB3077000	AV-13 Pump assembly (body with aerofoil fitted)	1
14	AB3078000	AV-14 Restrictor	1
15	AB3079000	AV-15 Gulper (adjustable)	1
16	AB3080000	Dust collector door handle	4
17	AB3081000	AV-17 Aerofoil	4
18	AB3082000	AV-18 Body	2
19	AB3083000	AV-19 Leg bracket	1
20	AB3084000	AV-20 Body coupler	1
21	AB3085000	AV-21 Location screw - short (2p/set)	1
22	AB3086000	AV-22 Location screw - long (2p/set)	1
23	AB3087000	AV-23 Manifold screw (4p/set)	1
24	AB3088000	AV-24 Manifold gasket	1
25	AB3089000	AV-25 Nozzle key	1
26	AB3090000	AV-26 Seal ring (camlock)	1



## RC-50-20 GRIT RECYCLING SYSTEM

The RC-50-20 is a mobile abrasive recycling machine which can be used inside or outside. Several types of reusable abrasive can be recycled by the RC-50-20, the rate of recycling depends upon the type of abrasive being processed. Used abrasive is manually fed into the intake hopper from where it is collected by the bucket elevator and transported up the funnel. At the top of the funnel the abrasive is poured onto the spreading plate which ensures an even, shallow and wide flow down into the cascade cleaner. Inside the cascade cleaner the larger particles are separated into a dust bag, and the smaller particles are extracted by a separate cartridge filter which features solenoid controlled automatic pulse cleaning. Depending upon which abrasive is being recycled, the unit can be adjusted to ensure that the abrasive flow and particle separation are fine-tuned to be as effective as possible. The cleaned abrasive is deposited into a hopper ready for reuse. The unit is manufactured in Europe from 3mm and 5mm steel to the highest quality standards. The motors and gearboxes are sealed and lubricated for life. The unit requires an electrical connection of 400volts – 50Hz as well as compressed air.



### Technical specifications

Dimensions (in standing position):

Height: 4.0mm

Width: 1.5mm

Depth: 1.8mm

Weight (empty): 650kg

### DELIVERY INCLUDES

#### E 50 Elevator

Total height: 4000mm

Capacity: 50ltr per minute

Motor power: 0.75kW

Electrical power: 400Volt, 50/60Hz

Made from 2 and 3mm sheet steel, reinforced with steel profile. Equipped with a motor, gearbox, dust free rolling element, and an inspection hatch.

#### K 350 Cascade Cleaner

Height: 650mm

Width: 350mm

Made from 3 and 5mm steel plate. The cleaner is mounted between the elevator and the stock silo.

#### PF1-L Dustfilter (for Cascade Cleaner)

Cartridge Filter with automatic continuous solenoids which activate pulse cleaning.

Filter installation made from 3mm steel plate with sleeve profiles and reinforcements.

The filter installation consists of the following components:

Undercarriage with preseparator and dust silo with rubber plug valve,

Filter cabinet with integrated compressed air filter cartridge and cleaning system and a fan.

### Technical specifications

Exhaust capacity: 960m<sup>3</sup>/h

Static pressure: 1200Pa

Motor power: 0.75Kw

Motor voltage: 400Volt-50/60Hz

Filter cartridge: 1 pc.

Filter area: 325 x 15m<sup>2</sup>

Filter material: polyester nonwoven NA 806

Max. dust emission: <1.5mg/nm<sup>3</sup>

Dedusting : automatically by compressed air; max. 6bar

Valves: 1 pieces 1½ G

Pulse pressure: ± 5bar

Pulse cycle time: adjustable

Exhaust pulse: 1 cartridge equivalent

Noise level: 78dBA

Dust extraction: PVC bag

#### S-200 Hopper

Abrasive silo 200ltr. Made from 3mm sheet steel, reinforced with steel profile and equipped with a grit valve and closing lid.

#### Electric Panel

Complete with automatic switch controllers, mainswitch, failure lamp and control buttons.

# RC-50-150 GRIT RECYCLING SYSTEM

The RC-50-150 is an abrasive recycling system which can be used inside or outside. Several types of reusable abrasive can be recycled by the RC-50-150 into bigbags or blast vessels. The rate of recycling depends on the type of abrasive being processed.

## Operating principle:

Dust laden air enters through the inlet plenum of the collector, where heavy particles fall immediately into the hopper. As the air flows through the filter cartridges, dust is deposited on the outside of the filtering media. The filter cartridges are cleaned automatically and continually without interrupting the operation of the dust collector. An adjustable timer controls the cycle time. Solenoid valves introduce jets of high-pressure air into the cartridges in turn, through the Venturi opening above each cartridge. The resulting reverse airflow cleans the filter cartridges. Dust removed from the filter surface settles into the hopper. As each pair of filter cartridges is cleaned in succession, the remaining stay.

The used abrasive has to be put into the abrasive hopper, then it comes in a regulated flow to the elevator. From the elevator it comes in the rotary sieve, with holes Ø 4, 5 and 6mm at choice. If the abrasive is polluted with big parts like coating scale, woodchips, glass, etc. these contaminants are separated through the rotating movement of the sieve.

The sieve is supplied complete with a dust exhaust connection. After the sieve the abrasive flow is through a cascade system.

The air wash action can be regulated to control the size of the reusable abrasive. Dust and non-usable (too fine) abrasive is automatically discharged and collected in big bags or extracted by the separate filter. The cleaned abrasive will fall into the abrasive silo and is ready to be stored into big bags or into blast vessels.

The system is supplied complete with: crane hooks, inspection covers and flexible dust-exhaust ducting to the big bags.



## Technical Specifications

Dimensions (in standing position):

Height: 4780mm  
Width: 2180mm  
Depth: 2180mm

Weight (empty): 3500kg

Total electrical power: 2kW 400Volt – 50/60Hz

Compressed air: 5bar

Capacity silo: 1.600ltr

Capacity elevator: 3000ltr/hour

> for garnet this is  $2.3 \times 3.000/1000 = 6.9\text{ton/hour}$

> for steel grit this is  $4.5 \times 3.000/1000 = 13.5\text{ton/hour}$

## DELIVERY INCLUDES

### Abrasive hopper with inlet sieve

Opening dimensions: Width approx: 700mm  
Depth approx: 500mm  
Height approx: 650mm

Made of 3mm. Steel plate complete with sieve and grit regulating system to prevent bucket conveyor overload.

### Bucket Elevator E-50

Gear motor: 0.75kW

Capacity: 50ltr/min

Closed dust-free bearing system. Special belt with Columbus buckets.

### Automatic Self Cleaning Rotary Screen TZ-80

(capacity 80ltr per minute)

Made of 2mm and 3mm steel plate, reinforced with profiles. Provided with motor reductor 0.37kW 400 Volt, dust-closed bearings and an inspection cover.

### Abrasive Cleaning

The rotary sieve must be used if the abrasive is polluted with big parts like coating-scale, wood chips, glass, etc. The contamination is separated through the rotating movement of the sieve. Further, the sieve comes complete with a dust exhaust connection.

# RC-50-150 GRIT RECYCLING/CLEANING SYSTEM

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## Grit Cleaning System

Consisting of one heavy-duty cascade system with double air wash action of the abrasive, mounted directly onto the outlet of the elevator. Oversized materials are separated by screens in the bucket elevator hopper. Cascade cleaner is connecting with a suction ducting Ø 180mm to the filter unit.

The air wash action can be regulated to control the size of re-usable abrasive. The dust and non-useable abrasive (too fine) are discharged automatically and collected in big bags or extracted by the separate filter.

## Technical specifications

Exhaust capacity:	960m <sup>3</sup> /h
Total pressure:	1.200Pa
Motor power:	0.75Kw, 400/690 Volt, 3-Ph, 50Hz
Filter cartridge:	1pc. Ø 325 x 1000mm
Filter area:	15m <sup>2</sup>
Filter material:	polyester fabric
Filter percentage:	99.9%
Max. dust emission:	<1.5mg/nm <sup>3</sup>
Cleaning:	continuous by compr. air max. 5bar
Solenoid valves:	1 pcs (1" G)
Cleaning pressure:	4 bar
Cycle time:	adjustable
Sequence:	1 cartridge simultaneous
Dust collecting bags:	PVC bag

## Abrasive Storage Silo 1500ltr

Silo constructed of 3mm steel plate and profiles complete with abrasive stop and connection for 2 big bags or 2 blast vessels.

## Electric Panel

Complete with automatic switch controllers, mainswitch, failure lamp and control buttons.

## Steel Frame Construction

All components are mounted within a sturdy steel frame complete with crane hooks, so in this case the unit is easy to transport and requires little down-time to set up.

All components are mounted within a sturdy steel frame, so the unit is easy to transport and requires little downtime to set up.

# RC-80-160 GRIT RECYCLING SYSTEM

The RC-80-160 is an abrasive recycling system that can be used inside or outside. Several types of reusable abrasive can be recycled by the RC-80-160 into big bags or blast vessels. The rate of recycling depends on the type of abrasive being processed.

## Operating principle:

Dust laden air enters through the inlet plenum of the collector, where heavy particles fall immediately into the hopper. As the air flows through the filter cartridges, dust is deposited on the outside of the filtering media. The filter cartridges are cleaned automatically and continually without interrupting the operation of the dust collector. An adjustable timer controls the cycle time. Solenoid valves introduce jets of high-pressure air into the cartridges in turn, through the Venturi opening above each cartridge. The resulting reverse airflow cleans the filter cartridges. Dust removed from the filter surface settles into the hopper. As each pair of filter cartridges is cleaned in succession, the remaining stays.

The used abrasive has to be put into the abrasive hopper, then it comes in a regulated flow to the elevator. From the elevator it comes in the rotary sieve, with holes Ø 4, 5 and 6mm at choice, if the abrasive is polluted with big parts like coating scale, woodchips, glass, etc. these contaminants are separated through the rotating movement of the sieve. The sieve is supplied complete with a dust exhaust connection. After the sieve the abrasive flow is through a cascade system.

The air wash action can be regulated to control the size of the reusable abrasive. Dust and non-usable (too fine) abrasive are automatically discharged and collected in big bags or extracted by the separate filter. The cleaned abrasive will fall into the abrasive silo and is ready to be stored into big bags or into blast vessels.

The system is supplied complete with: crane hooks, inspection covers and flexible dust-exhaust ducting to the big bags.



## TECHNICAL SPECIFICATIONS

Dimensions (in standing position):

Height:	4780mm
Width:	2180mm
Depth:	2180mm
Weight (empty):	3000kg
Total electrical power:	2.75kW 400 Volt – 50/60Hz
Compressed air:	5bar
Capacity silo:	1600ltr
Capacity elevator:	4800ltr
	> for garnet this is $2.3 \times 4800/1,000 = 11\text{ton/hour}$
	> for steel grit this is $4.5 \times 4800/1,000 = 21\text{ton/hour}$

## DELIVERY INCLUDES

### Abrasive hopper with inlet sieve

Opening dimensions: Width approx: 700mm  
 Depth approx: 500mm  
 Height approx: 650mm

Made of 3mm steel plate complete with sieve and grit regulating system to prevent bucket conveyor overload.

### Bucket Elevator E-80

Gear motor: 1.5kW  
 Capacity: 80ltr/min

Closed dust-free bearing system. Special belt with Columbus buckets.

### Automatic Self Cleaning Rotary Screen TZ-80 (capacity 80ltr per minute)

Made of 2mm and 3mm steel plate, reinforced with profiles. Provided with motor reductor 0.37kW 400 Volt, dust-closed bearings and an inspection cover.

### Abrasive Cleaning

The rotary sieve must be used if the abrasive is polluted with big parts like coating-scale, wood chips, glass, etc. The contamination is separated through the rotating movement of the sieve. Further, the sieve comes complete with a dust exhaust connection.

# RCV-80-160 GRIT RECYCLING SYSTEM

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## Grit Cleaning System

Consisting of one heavy-duty cascade system with double air wash action of the abrasive, mounted directly onto the outlet of the elevator. Oversized materials are separated by screens in the bucket elevator hopper. Cascade cleaner is connecting with a suction ducting Ø 180mm to the filter unit.

The air wash action can be regulated to control the size of re-usable abrasive. The dust and non-useable abrasive (too fine) are discharged automatically and collected in big bags or extracted by the separate filter.

## Technical Specifications

Exhaust capacity:	960m <sup>3</sup> /h
Total pressure:	1.200Pa
Motor power:	0.75Kw, 400 Volt, 3-Ph, 50Hz
Filter cartridge:	1pc. Ø 325 x 1000mm
Filter area:	15m <sup>2</sup>
Filter material:	polyester fabric
Filter percentage:	99.9%
Max. dust emission:	< 1.5 mg/nm <sup>3</sup>
Cleaning:	continuous by compr. air max. 5bar
Solenoid valves:	1 pcs (1" G)
Cleaning pressure:	4bar
Cycle time:	adjustable
Sequence:	1 cartridge simultaneous
Dust collecting bags:	PVC bag

## Abrasive Storage Silo 1500ltr

Silo constructed of 3mm steel plate and profiles complete with abrasive stop and connection for 2 big bags or 2 blast vessels.

## Electric Panel

Complete with automatic switch controllers, mainswitch, failure lamp and control buttons.

## Steel Frame Construction

All components are mounted within a sturdy steel frame complete with crane hooks, so in this case the unit is easy to transport and requires little down-time to set up.

All components are mounted within a sturdy steel frame, so the unit is easy to transport and requires little downtime to set up.

# AB710 HEAVY DUTY RECOVERY AND CLEANING SYSTEM

This robust and extremely powerful system is designed for the recovery of blasting shot. Equipped with automatic pneumatic pinch valve and automatic self-cleaning NCF filter. Most of the dust is separated from the blasting shot or from the collected granulates. The dust is channelled into its own container, while the blasting shot or granulated material is fed back into the blasting pot, onto conveyors or into other containers.

## Features

- Extremely high vacuum for suction of heavy material over long horizontal and vertical distances.
- Dust separation from collected granules and grit.
- Automatic filter cleaning and silo discharge.

## Applications:

- Cleaning of floors
- Cleaning of machines
- Cleaning of blasted area
- Removing of abrasive



Technical data	Metrical	Imperial
Max. vacuum	7800mm WC	307 in WC
Max. air flow	318Nm <sup>3</sup> /hr	187cfm
Compressed air consumption	5.3Nm <sup>3</sup> /min	187cfm
Compressed air pressure	700kPa	7bar
Noise level	75dB(A)	-
Main filter:	43162001	-
Main filter area:	3.15m <sup>2</sup>	33.9ft <sup>2</sup>
Main filter approval category:	H12	-
Main filter type:	NCF	-
Main filter material:	PET w/membrane	-
Main filter cleaning method:	Pressurized air	-
Approval category EN1822-1: 1998		
Control filter:	-	-
Control filter area:	-	-
Control filter approval category:	-	-
Control filter type:	-	-
Control filter material:	-	-
Control filter cleaning method:	-	-
Container gross volume:	67 + 220ltr	17.7 + 58.1gallon
Container practical volume:	67 + 220ltr	17.7 + 58.1gallon
Standard suction inlet diameter:	63mm	2.5 inches
Standard suction hose diameter:	63mm	2.5 inches
Standard suction hose length:	10m	32.8 feet
Standard suction hose quality:	PUR	-
Simultaneous operators:	-	-
Length x Width x Height:	1875 x 1000 x 3025mm	74 x 39 x 119 inches
Note: The vacuum cleaner is fully equipped and ready for immediate use.		



## AB2030 – VACUUM CLEANER

This fully pneumatic or electrically driven vacuum suction machine is characterised by its solid build and finish, simplicity and high operating reliability. The AB2030 can be used for cleaning of (heavy) soiled floors, workplaces and machines both inside and outside. In addition it can also be used for vacuuming of abrasive, granulates and coarse dirt parts.

The aspirated material can be discarded, by the machine into a large waste bin or bag. The machine is supplied with a 5m very wear-resistant polyurethane lined, suction hose and various different suction mouths.



### Applications:

- Cleaning of floors
- Cleaning of machines
- Cleaning of blasted area
- Removing of abrasive

### Technical specifications AB2030 EL

Technical data	Pneumatic	Electric
Dust bin capacity (ltr)	15	25
Max. hose length (m)	5	5
Empty weight (kg)	34	34
Power (W)		2000
Voltage		240VAC / 50Hz / 1Ph
Max. air consumption (ltr/min)	2300	1000
Max. static pressure	350	200
Noise level (dB(A))	80	80
Dimensions in cm. (L x W x H)	142 x 43 x 48	124 x 43 x 48

### Vacuum cleaning machine AB2030

Delivery includes:

- The complete blasting unit
- Hose set
- 3 standard suction tools
- Operator's manual
- Export packaging

### Machine options and accessories:

- Remote control system

## AB2050 – VACUUM CLEANER

The AB2050 is a compressed air-driven or electrically-driven vacuum suction machine and is characterised by a solid construction, robustness and finish. Unlike the AB2030 series vacuum suction machines, it can be drained through a dust-drain valve into a plastic bag.

The AB2050 PN can be used for cleaning (heavy) soiled floors, workplaces and machines. In addition, it can also be used for vacuuming of abrasive, granulates and coarse dirt parts.

The machine comes standard with a 5m polyurethane lined, very wear-resistant suction hose and various nozzles. For the saving of compressed air, it can also be supplied with an on/off switch in the power nozzle.

The aspirated material can be discarded, by the machine into a large waste bin or bag.



### Applications:

- Cleaning of floors
- Cleaning of machines
- Cleaning of blasted area
- Removing of abrasive

### Technical specifications AB2050 PN/EP

	Pneumatic	Electric
Dust bin capacity (ltr)	35	35
Max. hose length (m)	5	5
Empty weight (kg)	68	70
Power (W)		3000
Voltage		240 VAC / 50Hz / 1Ph
Max. working pressure (bar)	7	7
Max. air consumption (ltr/min.)	2300	1600
Max. static pressure (mbar)	360	200
Noise level (dB(A))	80	80
Dimensions in cm (L x W x H)	148 x 52 x 55	140 x 52 x 52

### Vacuum cleaning machine AB2030

Delivery includes:

- The complete blasting unit
- Hose set
- 3 standard suction tools
- Operator's manual
- Export packaging

### Machine options and accessories:

- Remote control system

World-leading Surface Preparation and Finishing Solutions

# Finishing Equipment and Accessories



# MPV VISOR

## The MPV Full Face Air-Fed Visor – safety and comfort for the professional refinisher

The MPV full face visor is the first choice in air-fed respiratory protection for professional refinishers, the technically advanced design providing the perfect combination of safety and comfort in the spray booth, with excellent freedom of movement. Breathing air is gently and quietly dispersed through the tough, lightweight visor at a positive pressure without misting or discomfort, so every sprayer can work at their best.

### Superb fit and a great view – in widescreen!

The wrap around visor provides excellent vision, even if you wear spectacles, while the ratchet headband adjustment is fast and convenient, whether or not the operator is wearing latex gloves.

The crown strap is also adjustable and the visor has a flip up, nod-down facility. The integral visor has a low cost 'face seal cassette' available in foam or soft paper which quickly and easily clips to the rigid visor moulding. Clear view tear off strips are available as are replacement screens.

### The clean air act

The MPV Integral visor outfit includes all the necessary components to provide both breathing and spraying air by connecting a single air supply line to the waistbelt filter regulator, which contains a replaceable activated carbon cartridge for effective odour filtration and has a colour change indicator for oil contamination.



### MPV spare parts

Part no.	Description
ABMPV-623	Complete visor outfit with waistbelt
ABMPV-526	Complete visor assembly
ABMPV-477-K10	Kit of 5 fabric face seal cassettes
ABMPV-476-K10	Kit of 5 foam face seal cassettes
ABMPV-44-K10	Kit of 10 clear visor overspray shields

# Performance Tips and Guides

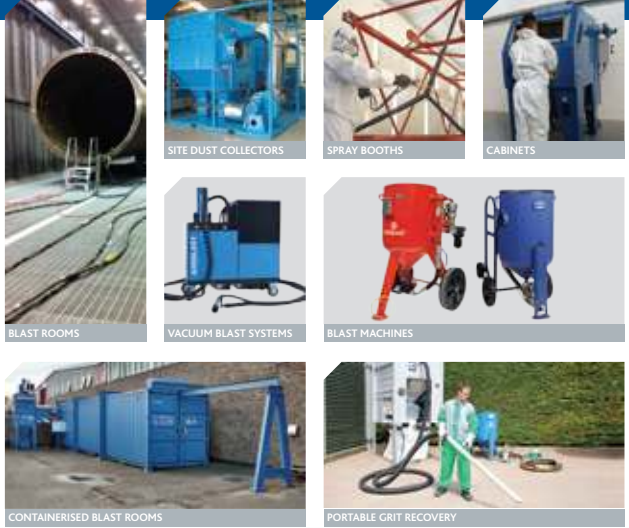


## STEEL SURFACE FINISHING STANDARDS



## FOR ALL YOUR BLASTING...

SA1	SA2	SA2 1/2	SA3
<p><b>BRUSH-OFF BLAST CLEANING</b></p> <p>Removal of loose mill scale, loose rust and loose paint, to a degree hereafter specified, by the impact of abrasives propelled through nozzles or by centrifugal wheels, to the degree specified. It is not intended that the surface shall be free of all mill scale, rust and paint. The remaining mill scale, rust and paint should be light and the surface should be sufficiently abraded to provide good adhesion and bonding of paint. A brush-off blast cleaned surface finish is defined as one from which all oil, grease, dirt, rust scale, loose mill scale, loose rust and loose paint or coatings are removed completely but light mill scale and tightly adhered rust, paint and coatings are permitted to remain provided that all mill scale and rust has been exposed to the abrasive blast pattern sufficiently to expose numerous flecks of the underlying metal fairly uniformly distributed over the entire surface.</p> <p>BS 5958-1 Steel Structures Painting Council (UK)                  SSP-C1 Paint Systems Contractors Organisation                  NACE 1 National Association of Corrosion Engineers (USA)</p>	<p><b>COMMERCIAL BLAST CLEANING</b></p> <p>Removal of partial mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree specified. A commercial blast cleaned surface finish is defined as one from which all oil, grease, dirt, rust scale and foreign matter have been completely removed from the surface and all rust, mill scale and old paint have been completely removed except for slight shadows, streaks, or discoloration caused by rust stains, mill scale oxides or slight, tight residues of paint or coating that may remain if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration, slight staining or light residues mentioned above.</p> <p>BS 5958-2 Steel Structures Painting Council (UK)                  SA 2 Quality Standards Organisation                  NACE 2 National Association of Corrosion Engineers (USA)                  SSP-C2 Paint Systems Contractors Organisation</p>	<p><b>NEAR-WHITE BLAST CLEANING</b></p> <p>Removal of nearly all mill scale, rust, rust scale, paint, or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree hereafter specified. A near-white blast cleaned surface finish is defined as one from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint or other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks or slight discoloration caused by rust stains, mill scale oxides, or light, tight residues of paint or coating that may remain. At least 95% of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration mentioned above.</p> <p>BS 5958-3 Steel Structures Painting Council (UK)                  SA 2 1/2 Quality Standards Organisation                  NACE 3 National Association of Corrosion Engineers (USA)                  SSP-C3 Paint Systems Contractors Organisation</p>	<p><b>WHITE METAL BLAST CLEANING</b></p> <p>Removal of all mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels. A white metal blast cleaned surface finish is defined as a surface with a grey-white, uniform metallic colour, slightly roughened to form a suitable anchor pattern for coating. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.</p> <p>BS 5958-4 Steel Structures Painting Council (UK)                  SA 3 Quality Standards Organisation                  NACE 4 National Association of Corrosion Engineers (USA)                  SSP-C4 Paint Systems Contractors Organisation</p>
<p>STEEL SURFACE LARGELY COVERED WITH BONDING MILL SCALE BUT LITTLE, IF ANY, RUST.</p>	<p>STEEL SURFACE WHICH HAS BEGUN TO FLAKE AND THROUGHOUT THE MILL SCALE HAS BEGUN TO FLAKE.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, BUT WHERE SIGHT EFFECTS ARE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL EFFECTS ARE UNDER NORMAL VISION.</p>



## ACHIEVING THE BEST FINISH

**THE ORIGINATING SURFACE CONDITION OF STEEL IS:**

- Steel surface largely covered with adhering mill scale by little, if any, rust.
- Steel surface which has begun to rust and from which the mill scale has begun to flake.
- Steel surface on which the mill scale has rusted away or from which it can be scraped, but with slight pitting visible under normal vision.

**SURFACE CLEANLINESS IS DIVIDED INTO FOUR GRADES:**

- SA 1 Brush off.
- SA 2 Commercial.
- SA 2-1/2 Near white metal.
- SA 3 White Metal.

## The finish surface achieved by abrasive blast cleaning depends upon the original surface condition as well as the type of abrasive blasting equipment, size, hardness, type and abrasive shape.

Besides cleanliness of the steel, consideration needs to be given to the etch or profile roughness created by the impact of the abrasive on the steel surface.

**THE SUBSTRATE PROFILE IS REGULATED BY:**

- Shape, type and grading of abrasive.
- Blasting method and velocity of abrasive trajectory.
- Steel condition prior to blasting.

The etched profile of the surface enables adhesion of the protective paint coatings. If the level at which this is achieved is too severe it will cause a waste of paint. If too light, it may cause a lack of adhesion.

The best method of obtaining a profile specification is to ensure the correct blasting equipment and method are combined with the correct abrasive. Once these requirements have been decided upon, the selection of method, equipment and training of personnel should be instigated.

Equipment used for surface preparation must be extremely reliable and simple to use. Operation information and training should be up-to-date.

Airblast has become the industry standard for manufacturing and supplying surface finishing equipment worldwide through a network of branch-offices as well as distributors.

## ...AND SPRAYING NEEDS



CALL 01778 560650 OR VISIT [WWW.AIRBLAST.CO.UK](http://WWW.AIRBLAST.CO.UK)



# NOZZLE PRESSURE/DIAMETER/SERVICE LIFE/AIR VOLUME

## Nozzle pressure/Nozzle diameter guide

Orifice	60PSI	4.2BAR	70PSI	4.9BAR	80PSI	5.6BAR	90PSI	6.3BAR	100PSI	7.0BAR	120PSI	8.5BAR			
<b>5.0mm</b> <b>3/16"</b>	30.0	0.85	33	0.93	38	1.08	41	1.16	45	1.27	58	1.64	Required Air	CFM	m <sup>3</sup> /min
	171	77	196	89	216	96	238	108	264	120	375	170	Required Abrasive	ltr/hr	kg/hr*
	7	5.3	8	5.6	9	6.4	10	7.1	10	7.5	12	9	Required Power	hp	kw
<b>6.5mm</b> <b>4/16"</b>	54	1.53	61	1.73	68	1.93	74	2.1	81	2.29	105	2.97	Required Air	CFM	m <sup>3</sup> /min
	312	141	354	160	408	185	448	203	494	224	660	300	Required Abrasive	ltr/hr	kg/hr*
	12	9	14	10.1	16	11.6	17	12.4	18	13.5	22	16.2	Required Power	hp	kw
<b>8.0mm</b> <b>5/16"</b>	89	2.52	101	2.86	113	3.2	126	3.57	137	3.88	160	4.53	Required Air	CFM	m <sup>3</sup> /min
	534	242	604	274	672	305	740	335	850	385	1050	476	Required Abrasive	ltr/hr	kg/hr*
	20	15	23	19.1	26	20.2	28	21	31	22.9	37	27.5	Required Power	hp	kw
<b>9.5mm</b> <b>6/16"</b>	126	3.57	143	4.05	161	4.56	173	4.9	196	5.55	235	6.65	Required Air	CFM	m <sup>3</sup> /min
	764	346	864	392	960	425	1052	477	1152	523	1475	669	Required Abrasive	ltr/hr	kg/hr*
	28	21	32	24	36	27	39	28.9	44	33	52	39.6	Required Power	hp	kw
<b>11.0mm</b> <b>7/16"</b>	170.0	4.81	184	5.21	217	6.14	240	6.8	254	7.19	315	8.92	Required Air	CFM	m <sup>3</sup> /min
	1032	468	1176	533	1312	595	1448	657	1584	719	2050	930	Required Abrasive	ltr/hr	kg/hr*
	38	28.5	44	32.6	49	36.4	54	40.1	57	42.4	69	50.9	Required Power	hp	kw
<b>12.5mm</b> <b>8/16"</b>	224	6.34	252	7.14	280	7.93	309	8.75	338	9.57	410	11.61	Required Air	CFM	m <sup>3</sup> /min
	1336	606	1512	686	1680	762	1856	842	2024	918	2650	1202	Required Abrasive	ltr/hr	kg/hr*
	50	37.5	56	42	63	46.9	69	51.8	75	56.3	90	67.6	Required Power	hp	kw

Chart shows calculated consumption rates of air and abrasive for new nozzles. When selecting a compressor, add 50% to above figures to allow for normal nozzle wear and friction loss.

\*Based on abrasive density of 1.5kg per litre.

NOTE: Figures may vary depending on working conditions. To maintain desired air pressure as nozzle orifice wears, air consumption increases.

The effects of nozzle wear on air consumption must be considered when selecting nozzles and the compressors that support them. Contact Technical Support to find out more.

## Approximate nozzle service life in hours\*

Nozzle material	Steel shot and grit	Expendable abrasives	Alu-oxide abrasives
Tungsten carbide	500–800	300–400	20–40
Silicon carbide and nitride	600–1000	400–600	50–100
Boron carbide	1500–2500	750–1500	200–1000

\* Estimated values for comparison. Actual service life will vary depending upon blast pressure, media size and particle shape.

## Minimum Air Volume Table. Air volume requirements at 100PSI for a complete blast system

Nozzle	Size of orifice	Volume of air	Plus helmet	Plus 50% (reserve)	Minimum air required
<b>No. 4</b>	¼"	81	20	50	151CFM
	6.5mm	2.3	0.5	1.4	4.2m <sup>3</sup> /min
<b>No. 5</b>	5/16"	137	20	79	236CFM
	8.0mm	3.9	0.5	2.2	6.6m <sup>3</sup> /min
<b>No. 6</b>	3/8"	196	20	108	324CFM
	9.5mm	5.5	0.5	3.0	9.0m <sup>3</sup> /min
<b>No. 7</b>	7/16"	254	20	137	411CFM
	11mm	7.2	0.5	3.9	11.6m <sup>3</sup> /min
<b>No. 8</b>	½"	338	20	179	537CFM
	12.5mm	9.6	0.5	5.0	161.m <sup>3</sup> /min



# NOZZLE SELECTOR TYPE GUIDE /AIR LINE SIZES

Type	Casing	Liner	Length			Inlet		Thread		Orifice size range	
			Short	Medium	Long	1"	1¼"	Fine	Large (50mm)	mm	inches
ATSD	Aluminium	Tungsten Carbide		•	•			•		5.0–12.5	3/86–½
ATSDX	Aluminium	Tungsten Carbide		•			•	•		6.5–19.0	¼–¾
ATSDX-X/50	Aluminium	Tungsten Carbide		•			•	•		6.5–19.0	¼–¾
RJL-X/50	Alu/Rubber sleeved	Tungsten Carbide		•			•	•		5.0–19.0	3/16–¾
ATJD	Aluminium	Tungsten Carbide		•	•			•		5.0–12.5	3/16–½
ATJDX	Aluminium	Tungsten Carbide		•			•	•		8.0–16.0	5/16–5/8
ATJDX-X/50	Aluminium	Tungsten Carbide		•			•	•		8.0–16.0	5/16–5/8
AT	Aluminium	Tungsten Carbide	•					•		3.0–12.5	1/8–½
ATL	Aluminium	Tungsten Carbide	•					•		3.0–12.5	1/8–½
AAM-X/50	Aluminium	Tungsten Carbide		•	•			•		3.0–9.5	1/8–3/8
ABSN-X/50	Polyurethane	Silicon Nitride			•		•	•		5.0–12.5	3/16–½"
ABCL-X/50	Aluminium	Boron Carbide			•	•		•		6.5–12.5	¼–½

## Minimum Compressor Air line sizes

Nozzle orifice size	Minimum air line ID
¼" (6.5mm)	1" (25mm)
⅝" (8.0mm)	1¼" (32mm)
⅜" (9.5mm)	1½" (38mm)
7/16" (11.0mm)	2" (50mm)
½" (12.5mm)	2" (50mm)
⅝" (16.0mm)	2½" (64mm)
¾" (19mm)	3" (76mm)

## Compatibility Guide

No.	Nozzle orifice	Recommended range		Minimum blast machine capacity (ltr)	Minimum pipe ID	Blast hose ID	Minimum air hose ID
		m³/min	CFM				
3	5.0mm	1.27–2.29	45–81	60	1"	¾"	1"
4	6.5mm	2.29–3.88	81–137	60	1"	1"–1¼"	1¼"
5	8.0mm	3.88–5.55	137–196	100	1"	1"–1¼"	1¼"
6	9.5mm	5.55–7.19	196–254	200	1¼"	1¼"	1½"
7	11.0mm	7.19–9.57	254–338	200	1¼"	1"–1¼"	2"
8	12.5mm	9.57–15.52	338–548	200	1¼"	1"–1¼"	2"

Note: Best performance is obtained when sizes of nozzle, blast machine piping, blast hose and air hose are properly matched.

• m³/min and CFM range is based on blasting at 7bar (100psi) for the life of the nozzle.

• Blast machine capacity should allow 20 to 30 minutes of blasting.

• Hose ID should be three to four times the size of the nozzle orifice.

# ABRASIVE BLAST PERFORMANCE GUIDE

Nozzle size (mm)	4.8	6.5	8.0	9.5	11.0	12.5
CFM @ 7bar/100psi	46	83	129	187	254	332
Sand usage/hr	330	618	1015	1440	1980	2530
<b>FINISH: White Metal NACE #1/SA3</b>			<b>m<sup>2</sup> per hour</b>			
Loose Mill Scale; Light Rust; No Surface Pitting	3.1	5.8	101	13.4	18.4	23.5
Tight Mill Scale; Overall Rust; Some Pitting	2.5	4.7	7.9	11.1	17.2	19.5
Painted Surface; Heavy Rust; Pitted Surface	1.5	2.9	4.7	6.7	9.2	11.7
Multi-Coated or Heavily Pitted; Rust Scale	1.2	2.3	3.8	5.3	7.3	9.4
<b>FINISH: Near White NACE #2/SA2½</b>			<b>m<sup>2</sup> per hour</b>			
Loose Mill Scale; Light Rust; No Surface Pitting	3.3	7.9	9.8	14.0	19.3	24.7
Tight Mill Scale; Overall Rust; Some Pitting	2.6	5.0	8.3	11.7	16.1	20.4
Painted Surface; Heavy Rust; Pitted Surface	1.6	3.1	5.0	7.2	9.7	12.3
Multi-Coated or Heavily Pitted; Rust Scale	1.3	2.4	4.0	5.6	7.7	9.8
<b>FINISH: Commercial NACE #3/SA2</b>			<b>m<sup>2</sup> per hour</b>			
Loose Mill Scale; Light Rust; No Surface Pitting	7.6	14.3	23.4	33.4	46.0	77.3
Tight Mill Scale; Overall Rust; Some Pitting	5.1	9.6	17.6	22.3	30.7	39.1
Painted Surface; Heavy Rust; Pitted Surface	3.8	7.2	11.8	16.7	22.9	29.5
Multi-Coated or Heavily Pitted; Rust Scale	2.5	4.7	7.9	11.1	15.3	19.5

Performance results should be used as a guide only.

Effect of nozzle wear on air consumption					
Nozzle size	Orifice size		Air flow (CFM)	Increase in air consumption	
	Imperial	Metric (mm)			
4	¼	6.5	81		
5	5/16	8.0	137	96% more than No. 4	
6	3/8	9.5	196	43% more than No. 5	
7	7/16	11.0	254	29% more than No. 6	
8	½	12.5	338	33% more than No. 7	

Information shown is based upon air consumption at 100psi (7bar/700kPa)

# CHECKING COMPRESSED AIR QUALITY

## Prior to blasting and/or blowing off the work surface

### Why compressed air quality is critical:

One of the key aims of blast cleaning is to remove surface contaminants, corrosion, old paint etc. to ensure the performance of the coating system.

The compressed air must be clean, otherwise the blasting will introduce fresh contaminants as fast as the old contaminants are removed.

### Contaminants to check in the compressed air

- Dirt
- Oil (mist or droplets)
- Moisture (mist or droplets)

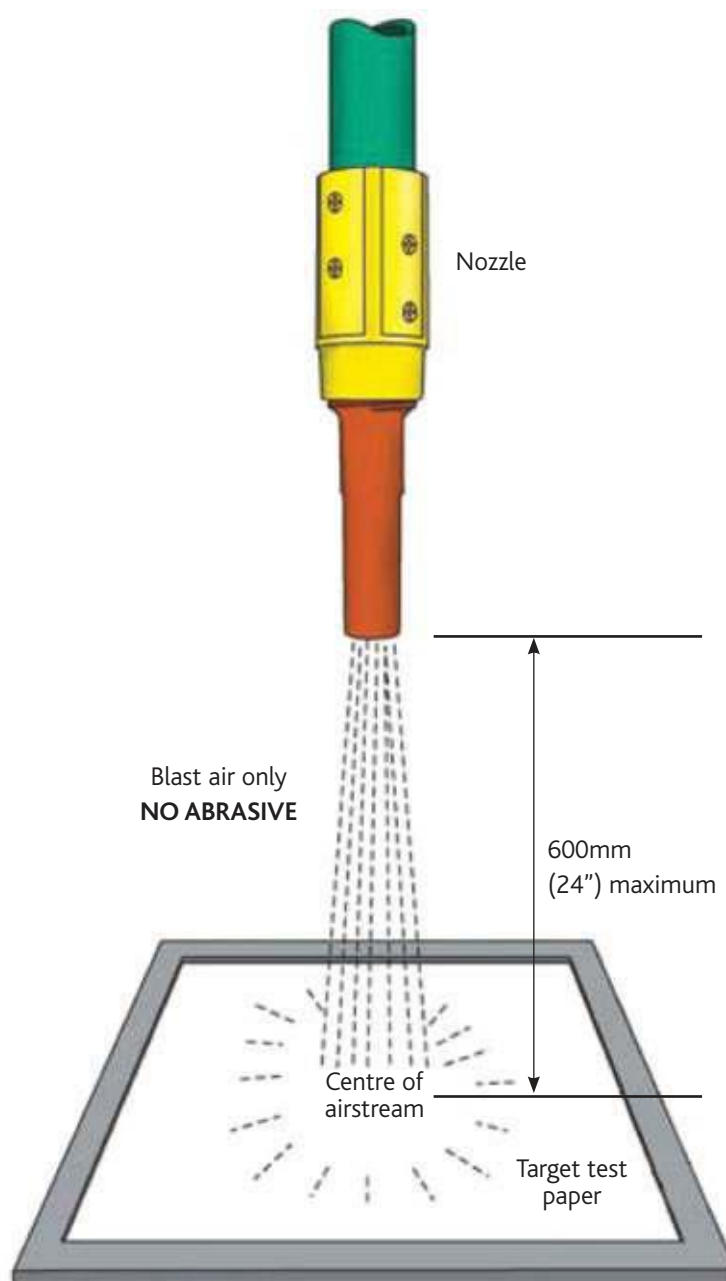
Each and all of these can cause coating failure.

### Recommended check intervals

- Test before commencing blasting
- Every 4 hours when blasting continuously

### Blotter paper method to check air quality

- 1 Start the compressor and set up the blast equipment
- 2 Secure the test paper apparatus
- 3 When the compressor is warmed up, start the blast equipment with NO abrasive in the airstream
- 4 Position the nozzle so the test paper is in the centre of the airstream and within 24" (600mm) of the nozzle
- 5 Sustain the test for 2 minutes continuously
- 6 After 2 minutes, stop the test and immediately check the test paper for any sign, feel, or smell of oil, moisture or other contaminants.



DISCLAIMER: The above information and procedure is for illustrative purposes only and is not intended to be an approved or standard method for testing compressed air quality. Airblast Eurospray expressly disclaims liability for the use or misuse of the above information and procedure.

# PAINT APPLICATION TABLES

Corrected volume solids (to the nearest 1%) after adding thinner to various initial volume solids coatings

### Formula

Corrected volume solids (CVS)

$$CVS = \frac{\text{Original volume solids} \times 100}{100 + \% \text{ thinner added}}$$

### Amount of thinner added per 20 litres

%	2.5%	3.125%	5%	6.25%	7.5%	10%	12.5%	18.75%	25%	27.5%
ml	500	625	1000	1250	1500					
litres			1	1.25	1.5	2	2.5	3.75	5	7.5
Initial volume solids before thinning										
100%	98	97	96-95	94	93	91	89	84	80	73
95%	93	93	91-90	90	89-88	87	85	81	77	70
90%	88	87	86	84	84	82	80	76	72	66
85%	83	82	81	80	79	78	76	72	68	62
80%	78	78	77-76	75	74	73	71	68	64	58
75%	73	73	72	71	70	69-68	67	63	60	55
70%	68	68	67	66	65	64	62	59	56	51
65%	64	63	62	61	60	60-59	58	55	52	47
60%	59	58	57	57	56-55	55	53	51	48	44
55%	54	53	53-52	52	51	50	49	46	44	40
50%	49	48	48	47	46	46	45	42	40	36
45%	44	44	43	42	42	41	40	38	36	33
40%	39	39	38	38	37	37-36	36	34	32	29
35%	34	34	34	33	33	32	31	30	28	26
30%	29	29	29	28	28	27	27	25	24	22
25%	24	24	24	24	23	23	22	21	20	18

Application wet film thickness (in microns)\* to achieve required DFT for various volume solids coatings

### Formula

Applied Wet Film Thickness (WFT)

$$WFT = \frac{\text{Dry Film Thickness (DFT)} \times 100}{\text{Corrected Volume Solids (CVS)}}$$

### Volume Solids %

	35	40	45	50	55	60	65	70	75	80	85	90	95
25	71	63	56	50	46	42	39	36	33	31	29	28	26
50	143	125	111	100	91	83	77	71	67	63	59	56	53
75	214	188	167	150	136	125	115	107	100	94	88	83	79
100	286	250	222	200	182	167	154	143	133	125	118	111	105
125	357	313	278	250	227	208	192	179	167	156	147	139	132
150	429	375	333	300	273	250	231	214	200	188	176	167	158
175	500	438	389	350	318	292	269	250	233	219	206	194	184
200	571	500	444	400	364	333	308	286	267	250	235	222	211
250	714	625	556	500	455	417	385	357	333	313	294	278	263
300	857	750	667	600	546	500	462	429	400	375	353	333	316

\*Theoretically calculated figures are NOT applicable for zinc coatings

# PAINT APPLICATION INFORMATION

Spreading rate (m<sup>2</sup>/ltr) achieving required DFT for various solids coatings

### Formula

Theoretical Spreading Rate (SR)

$$SR = \frac{\text{Corrected Volume Solids (CVS)} \times 10}{\text{Dry Film Thickness Volume (DFT)}}$$

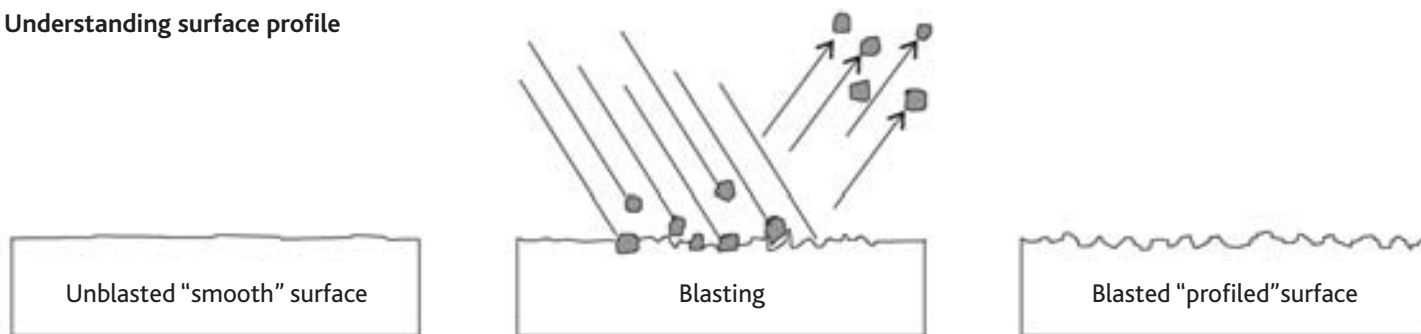
### Volume Solids %

	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
<b>20</b>	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0
<b>25</b>	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0
<b>30</b>	6.7	8.3	10.0	11.7	13.3	15.0	16.7	18.3	20.0	21.7	23.3	25.0	26.7	28.3	30.0	31.7	33.3
<b>50</b>	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0
<b>75</b>	2.7	3.3	4.0	4.7	5.3	6.0	6.7	7.3	8.0	8.7	9.3	10.0	10.7	11.3	12.0	12.7	13.3
<b>100</b>	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
<b>125</b>	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.0
<b>150</b>	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0	4.3	4.7	5.0	5.3	5.7	6.0	6.3	6.7
<b>175</b>	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.1	5.4	5.7
<b>200</b>	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.0	3.3	3.5	3.8	4.0	4.3	4.5	4.8	5.0
<b>250</b>	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
<b>300</b>	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.8	3.0	3.2	3.3
<b>400</b>	0.5	0.6	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.3	2.4	2.5
<b>500</b>	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0

\*Theoretically calculated figures may vary from practical spreading rates by as much as 50% or more.

# SURFACE PROFILE

## Understanding surface profile



In the blast cleaning process, grains of abrasive are propelled with great force and energy at the work surface. On impact, the grains 'dig' into and then rebound out and off the surface leaving a rugged, miniature 'mountain - and - valley' finish.

This surface roughness/etch/texture is the surface profile.

Surface profile is critical to coating performance by

- increasing the surface area
- providing a 'key/tooth/anchor pattern' for the coating to lock and adhere to

### The difference between surface profile and class of blast

Surface profile is concerned with the 'shape' of the surface finish (and measuring the size of the 'shape' created) whereas Class of Blast is concerned with 'cleanliness' of the surface finish. (Putting it another way – Class of Blast is determining to what degree the rust, paint and other contaminants have been removed). Both the Profile and the Class of Blast are important features of the surface finish and need to be separately specified in preparing a blast-cleaned steel surface.



### The pitfalls of surface profile

**Excess Profile** While an absence of profile can be detrimental to coating adhesion, it can be equally disastrous to have an excessive profile height causing premature rusting and coating failure. In addition, more profile means using more paint to cover the surface! Consider these cases...

**Rule of Thumb #1** Profile height should not exceed the primer coat DFT.

**Rule of Thumb #2:** Profile height should not exceed  $\frac{1}{3}$  the total coating system DFT.

**Embedment** Embedment of abrasive particles in the surface is a threat posed by friable, irregular shape abrasives. The embedded particle or fragment can stand out as a 'rogue' peak above the surrounding profile and protrude through the applied coating.



# SURFACE PROFILE

## Factors which have an effect on surface profile

**Abrasive Durability** - Surface hardness eg. Bicarb media vs Alox, Mild Steel vs Hardened Steel

Variable	Effect
More durable abrasive	= deeper profile
Less durable abrasive	= shallower profile
Hardened steel	= shallower profile
Mild steel	= deeper profile

**Abrasive Shape** eg. Steel Shot vs Steel Grit

Variable	Effect
Round abrasive	= dimpled, peened profile
Angular abrasive	= sharper, rugged, profile

**Abrasive Size** eg. #20/40 Garnet vs 80# Garnet

Variable	Effect
Larger abrasive	= deeper profile
Smaller abrasive	= shallower profile

**Impact Energy** eg. Nozzle pressure (abrasive velocity), nozzle wear, nozzle standoff distance, dwell time

Variable	Effect
Greater energy	= deeper profile
Lesser abrasive	= shallower profile

**Impact Angle** eg. Straight on blasting v side reach blasting

Variable	Effect
Low angle	= more scuffed profile
High angle	= more peak 'n' valley even profile

**Variable**

Variable	Effect
Large friable irregular grains	= higher risk of embedment
Smaller durable regular grains	= lower risk of embedment

# SURFACE CLEANLINESS FACTORS

## Subtle contaminants – Causes, Tests and Prevention

In addition to the obvious gross surface contaminants such as rust and old coatings, there are some subtle but serious contaminants which can cause major coating failure.

### Salt (specifically chloride ions)

#### Possible causes

##### New steel

- Contaminated abrasive
- Contaminated water (rinsing or pressure washing)

##### Existing steel

- Both of the above, plus environmental industrial exposure, e.g. marine location or industrial process.

#### Tests

- Many methods are available including:
- ChlorTest kits
- Bresle patches
- SCAT kits
- Conductivity meters
- Refer work specification and relevant AS/ISO standards.

#### Prevention

- Use a traceable quality, low salt abrasive, e.g. GMA Garnet
- Test abrasive for chloride content
- Test cleaning water for chloride content
- Pretest existing structures for chloride presence prior to blasting
- Rinse with clean water and/or a soluble salts remover e.g. Chloride

### Dust/Debris

#### Possible causes

- Poor quality abrasive causing excessive dust and debris, e.g. crushed glass
- Failure to blow-off surface completely after blasting

#### Tests

- Clean rag wipe test
- Pressure sensitive tape method
- Refer work specifications and relevant AS/ISO standard

#### Prevention

- Use a low dust abrasive, e.g. GMA Garnet
- Blow-off all surfaces after blasting

### Oil/Grease (thin film)

#### Possible causes

##### New steel

- Mill or warehousing or fabrication treatments
- Contaminated compressed air

##### Existing steel

- The above
- Plus environmental exposure

#### Tests

- Water Break Test
- UV Illumination Test
- Refer work specifications and appropriate AS/ISO standards.

#### Prevention

- Test and maintain compressed air quality
- Pretest and/or preclean work prior to blasting by degreasing and/or rinsing

DISCLAIMER: The above information is a guide only. It in no way purports nor represents to cover all factors, causes, tests or prevention of contaminants. Airblast Eurospray expressly disclaims any liability for the use or misuse of the above information.

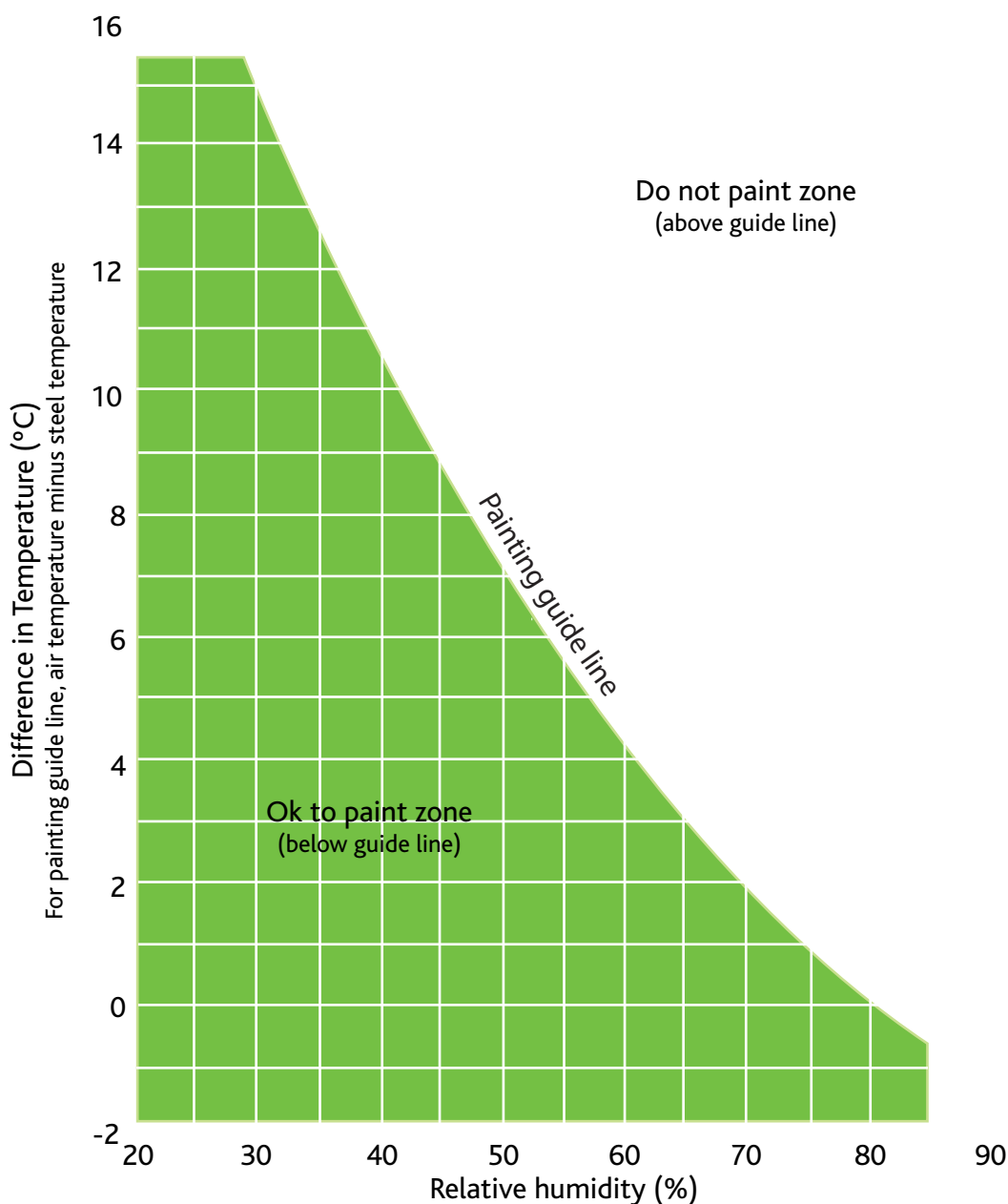
# CLIMATIC CONDITIONS FOR SAFE PAINTING

It is critical to the success of most coating systems, that the surface is completely free of moisture prior to and during paint application and curing.

## Dewpoint

Condensation of water (dew) from the atmosphere on to the surface will occur, given the right conditions. For a given set of conditions, the temperature at which condensation will occur is called the Dewpoint. As long as the surface temperature is 3°C (or more) above the Dewpoint temperature, it is generally considered safe to paint as far as risk of condensation is concerned.

Atmospheric Conditions for paint application



## Instructions for use

### 1. Measure

- air temperature
- surface temperature
- relative humidity

Use the same instrument for reading the air and surface temperature, and with an accuracy of  $\pm 0.5^{\circ}\text{C}$

### 2. Calculate

The temperature difference i.e. air temperature minus surface temperature

### 3. Plot and intersect on the chart

The temperature difference and the relative humidity

### If the intersection point is BELOW the guide line

- indicates conditions are safe to paint.











### ABOVE the guide line



- indicates UNSAFE conditions for painting

DISCLAIMER: The above information and chart do not represent or intend to be the approved nor standard method nor procedure for ensuring suitable climatic conditions for painting. Airblast Eurospray expressly disclaims any liability for the use or misuse of this information and/or procedures.

# ABRASIVES

## Abrasive Characteristic Comparison

Material	Mesh size	Shape	Density l/ft <sup>3</sup>	Mohs	Fiability	Initial Cos	No. of cycles	Per use cost	Source	Typical applications
Sil. Sand	6-270		100	5.0-6.0	high	low	1	med	nat	Outdoor blast cleaning
Min. Slag	8-80		85-112	7.0-7.5	high	med	1-2	med	bp	Outdoor blast cleaning
Steel Grit	10-325		230	8.0	low	high	200+	med	mfg	Removing heavy scale
Steel Shot	8-200		280	8.0		high	200+	low	mfg	Cleaning, peening
Al. Oxide	12-325		125	8.0-9.0+	med	high	6-8	med	mfg	Cleaning, finishing, deburring, etching
Glass bead	10-400		85-90	5.5	med	med	8-10	low	mfg	Cleaning, finishing
Plastic	12-80		45-60	3.0-4.0	low/med	high	8-10	med	mfg	Paint stripping, deflashing, cleaning
Wheat Starch	12-80		45	3.0	med	med	12-15	high	mfg	Paint, adhesive removal, composites
XL-Corn Hybrid Polymer	16-60		45	3.0	low	high	14-17	med	mfg	Composite paint removal adhesive deflash
Corn cob	8-40		35-45	2.0-4.5	med	low	4-5	low	bp	Removing paint from delicate surfaces

 =Angular    =Spherical   nat = Natural   bp = By-product   mfg = manufactured

# CONVERSION FACTORS

## Imperial to Metric

### Length

thousandth of inch (thou or mil)	x 25.4 = $\mu\text{m}$
inches (in)	x 25.4 = mm
feet (ft)	x 0.3048 = m

### Area

square inches (in <sup>2</sup> )	x 645.16 = mm <sup>2</sup>
square feet (ft <sup>2</sup> )	x 0.0929 = m <sup>2</sup>

### Volume

cubic inches (cu in)	x 16.38716 = cm <sup>3</sup> or mL
cubic feet (cu ft)	x 0.028317 = m <sup>3</sup>
cubic feet (cu ft)	x 28.31701 = L
US gallons (gal)	x 3.7854 = L
quart (qt)	x 0.9464 = L
fluid ounces (fl oz)	x 29.57 = mL

### Speed – Velocity

feet per minute (ft/min)	x 0.00508 = m/s
feet per second (ft/s)	x 0.03048 = m/s

### Flow Rate

cubic feet per minute (CFM)	x 0.47195 = L/s
cubic feet per minute (CFM)	x 0.028317 = m <sup>3</sup> /min
cubic feet per minute (CFM)	x 1.69902 = m <sup>3</sup> /hr
US gallons per minute (gpm)	x 3.7854 = L/min

### Weight – Mass

pounds (lb)	x 0.4536 = kg
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### Bulk - Density

pounds per cubic foot (lb/cuft)	x 16.0185 = kg/m <sup>3</sup>
pounds per cubic foot (lb/cuft)	x 0.016019 = kg/L

### Pressure

pounds per square inch (psi)	x 6.8947 = kPa
pounds per square inch (psi)	x 0.0068947 = MPa
pounds per square inch (psi)	x 0.068947 = bar

### Vacuum

inches of mercury (in. Hg)	x 3.38638 = -kPa
inches of mercury (in. Hg)	x 13.596 = in. H <sub>2</sub> O

### Power

horsepower (hp)	x 0.7457 = kW
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### Temperature

degrees Fahrenheit (°F)	-32, then x 0.5555 = °C
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## Metric to Imperial

### Length

microns ( $\mu\text{m}$ )	x 0.03937 = thou or mil
millimetres (mm)	x 0.03937 = in
metres (m)	x 3.28083 = ft

### Area

square millimetres (mm <sup>2</sup> )	x 0.00155 = in <sup>2</sup>
square metres (m <sup>2</sup> )	x 10.7639 = ft <sup>2</sup>

### Volume

cubic centimetres (cm <sup>3</sup> )	x 0.061023 = cu in
cubic metres (m <sup>3</sup> )	x 35.3145 = cu ft
litres (ltr)	x 0.035315 = cu ft
litres (ltr)	x 0.26417 = US gal
litres (ltr)	x 1.05668 = qt
millilitres (mL)	x 0.03381 = fl oz

### Speed – Velocity

metres per second (m/s)	x 196.85 = ft/min
metres per second (m/s)	x 3.28083 = ft/s

### Flow Rate

litres per second (ltr/s)	x 2.11887 = CFM
cubic metres per minute (m <sup>3</sup> /min)	x 35.3145 = CFM
cubic metres per hour (m <sup>3</sup> /hr)	x 0.58857 = CFM
litres per minute (ltr/min)	x 0.26417 = US gpm

### Weight – Mass

kilograms (kg)	x 2.2046 = lb
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### Bulk - Density

kilograms per cubic metre (kg/m <sup>3</sup> )	0.062428 = lb/cuft
kilograms per litre (kg/ltr)	x 62.4277 = lb/cuft

### Pressure

kilopascals (kPa)	x 0.145 = psi
megapascals (MPa)	x 145.04 = psi
bar (bar)	x 14.504 = psi

### Vacuum

kilopascals vacuum (-kPa)	x 0.2953 = in. Hg
inches of water (in. H <sub>2</sub> O)	x 0.07355 = in. Hg

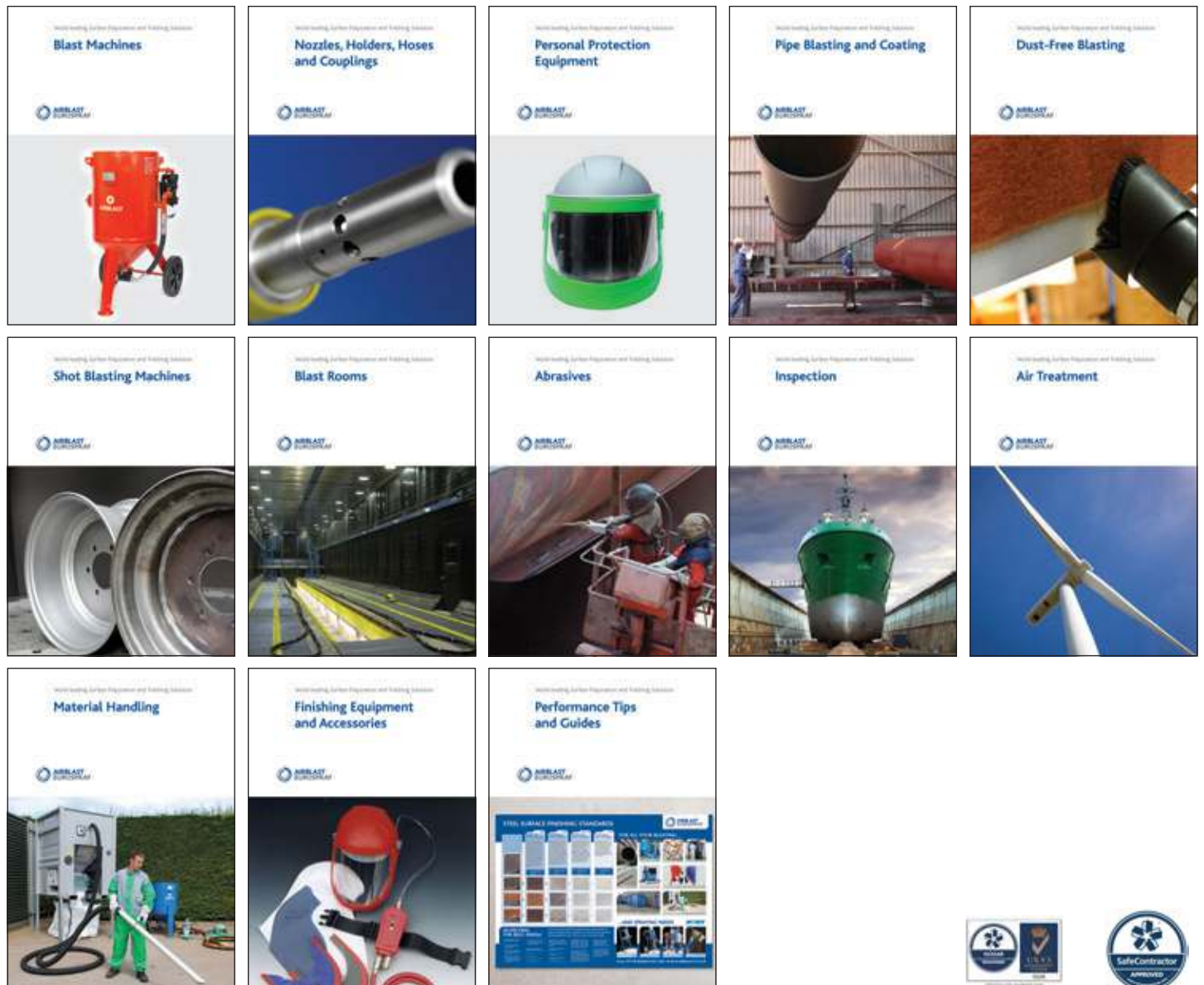
### Power

kilowatts (kW)	x 1.341 = hp
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### Temperature

degrees Celsius (°C)	x 1.8, then +32 = °F
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