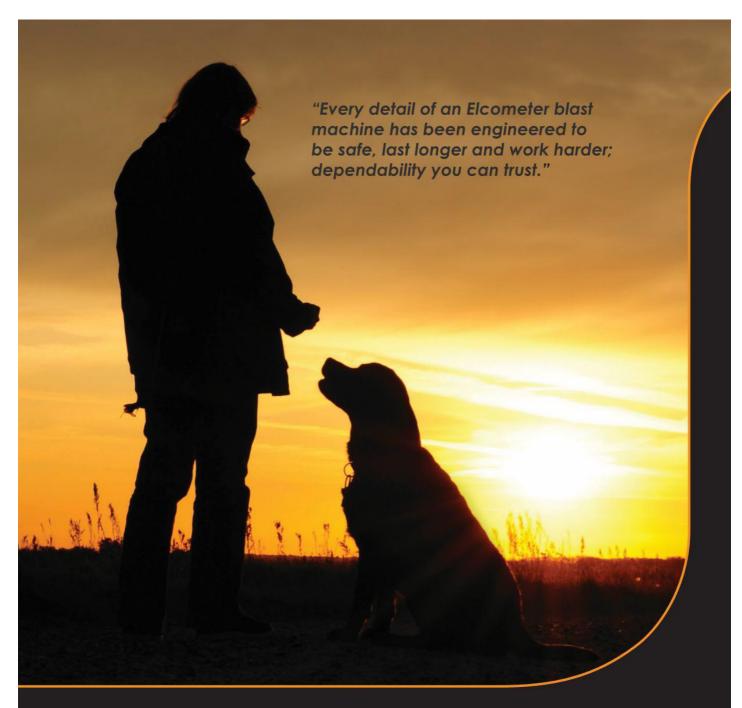


With over 35 years of experience in the design and manufacture of pressure vessels for the abrasive blast industry, Elcometer blast equipment is **engineered to last longer**, work harder and perform better.



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# **SAFE & RELIABLE**

Rugged, reliable and easy to use, Elcometer blast machines & valves are supplied with a full 12 month warranty and are engineered & tested to be incredibly efficient, durable and safe.

## Excellence Is Our Standard

Designed and manufactured at our purpose built production facility in Manchester, England, Elcometer blast machines are CE approved, fully tested and certified to International Standards PED 2014/68EU.



### Built to Last

Manufactured out of heavy duty 6mm (1/4") steel with double weld seams and with a tough marine specification multi-coat anti-corrosion paint, Elcometer blast machines exceed CE/PED Standards to maximise their lifespan.



# Putting You in Control

Elcometer's state-of-the-art RCV4000 & RCV4000+ Remote Control Valves allow you to safely control the blast machine at the nozzle. The high flow exhaust manifold allows air to quickly depressurise the blast machine.



# Emergency Shut Down

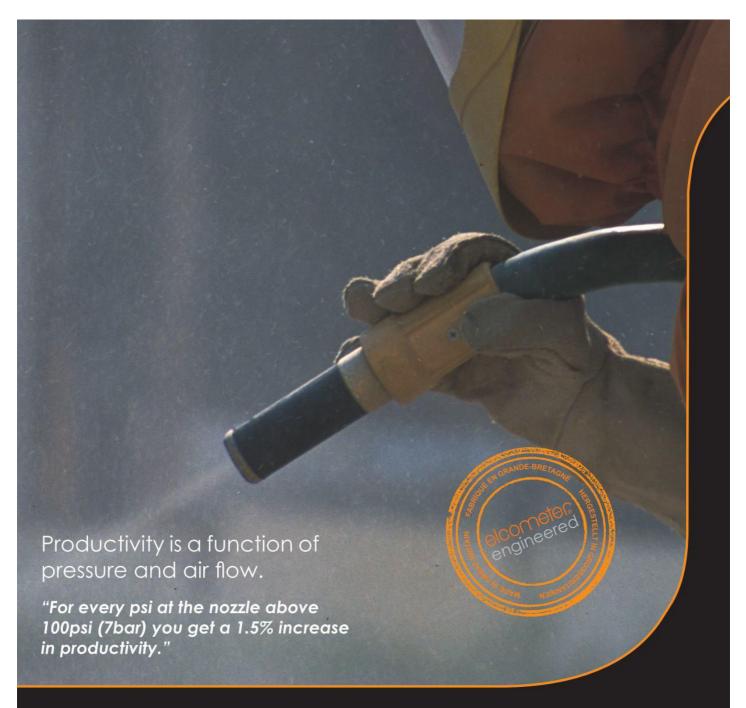
Every Elcometer blast machine is fitted with a large and easy to reach safety petcock as standard. In an emergency it will isolate the deadman's handle circuit and depressurise the blast machine quickly and safely.



## Peace of Mind

Pressure relief valves must be incorporated into the system to meet global safety standards. Elcometer offer certified pressure relief valves that can be easily fitted to RCV4000+Remote Control Valves, automatically discharging the compressed air in the blast machine upon reaching the release pressure.





# **ENHANCE YOUR PERFORMANCE**

Optimising the volume, speed and pressure of air to the nozzle results in greater blasting efficiency. Higher pressure and speed of air at the nozzle will also allow use of a larger nozzle size, resulting in faster blast area coverage, allowing you to cover more in less time.

Operating at more efficient blast pressures will also result in less abrasive usage thus saving money and clean up time!

## Minimise Your Pressure Loss

The design of your blast machine together with your blast hose diameter, length, age, wear and quality can effect the pressure at the nozzle.

This is why we manufacture blast machines which have a maximum working pressure of either 12 or 15bar (174 or 217psi) and have been engineered for minimal pressure loss - so that you will always have the nozzle pressure you need to maximise your productivity.



### Maximise Your Cubic Air Flow Per Minute

With an internal pipe diameter of  $1\frac{1}{2}$ " (38mm) across our blast machines we have optimised the volumetric flow rate of air through the system every minute so that you can select a larger nozzle diameter, allowing you to blast more in less time.



#### Blast for Longer

Elcometer blast machines have a maximum working pressure of 12 or 15bar (174 or 217psi) allowing you to maintain the nozzle pressure over significantly longer lengths of hose, even as it wears.



Elcometer blast machines are designed to deliver the optimum pressure and flow rate at the nozzle, allowing you to use less abrasive to blast the same area to the same profile, saving you money.

Our abrasive media valves come with fingertip adjustment so that you can precisely control the media flow, even whilst blasting.



#### Reduce Your Maintenance

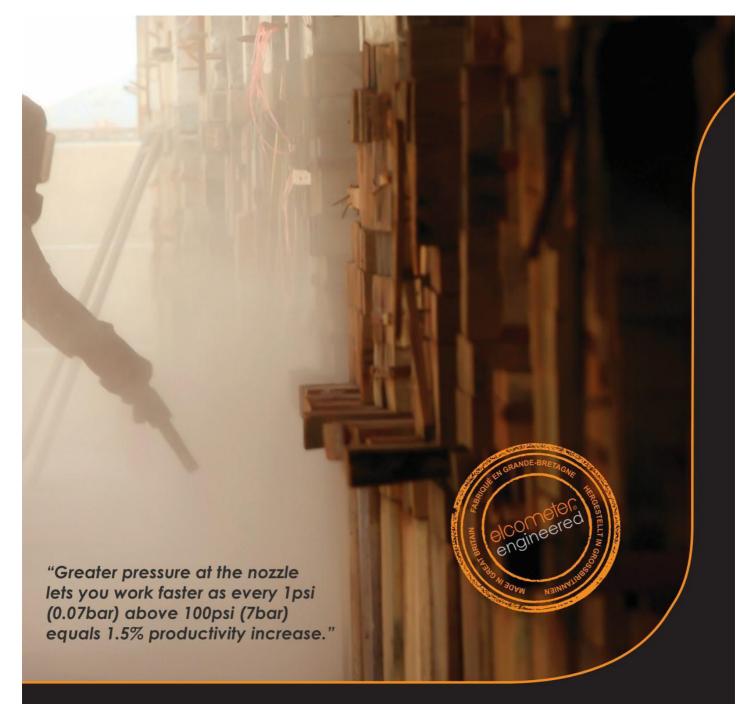
Elcometer's blast machines are engineered to be extremely durable so that parts last longer. Forcing abrasive through a high pressure system will, however, always create wear and tear so we have designed our machines to be easy and fast to maintain so that you can maximise your blast time.



#### Be In Control

Designed for precision control and minimal air flow loss, the Elcometer RCV4000 & RCV4000+ Remote Control Valves allow you to safely control a blast machine at the nozzle, fast.





# **MAXIMISE UP TIME**

When you are not blasting you are not earning, that's why Elcometer blast machines are engineered to work harder, last longer and be faster to maintain.

## Quick and Easy

Whilst Elcometer pop up valves come with reinforced metal guards so that they last longer, when they need to be replaced you can do so quickly and easily thanks to the large access doorway which is wide enough for both of your arms. As each door comes with an ElcoFit<sup>™</sup> wraparound sealing gasket, you don't even have to worry about gasket alignment.



## Maintenance in Minutes

Maintenance is always required to prolong the service life of your blast machine. To minimise your downtime, the remote control valve, exhaust, silencer and moisture separator can be quickly swapped out in one assembly by undoing just two union joints. So whilst the assembly is being serviced, you can carry on blasting.



# Tough Ts

Elcometer Mixer Ts are made from ultra-hard wearing machined steel so that they last longer. When they start to wear out, just rotate them by 180° to double their service life.

Each Elcometer Exhaust T features a replaceable sacrificial plug designed to extend the life of the assembly.



## Extend Your Lifetime

Unlike other media valves, Elcometer GV and AGV abrasive media valves are fitted with a replaceable elcoTOUGH™ rubber valve liner which protects and prolongs the lifetime of the valve itself.

Integrated scales on the valves clearly indicate the valve setting and tells you when you need to change the liner, so you don't have to guess, or open up the valve to check.



Each elcoTOUGH™ liner can last more than 3 times longer than other rubber liners and can be rapidly replaced without the need to remove the valve from the machine.



# **OPTIMISE YOUR BLASTING**

The efficiency of blasting is often measured by the coverage area achieved in a given time. Blasting is a time consuming and physically demanding process and anything that the operators can use to enable them to work more effectively is important to consider.



Whilst the blast media and air mix defines the blasting process, optimising the air pressure, speed and abrasive content is vital if the blasting process is to be carried out efficiently.

Although the variables associated with the process are limited; compressor output, pot pressure, media valve setting, hose length, nozzle size, etc. - understanding how to optimise these variables is vitally important.

Abrasive blast machine systems are designed to provide the optimum pressure and flow of both air and blast media through the blast nozzle. Ensuring that both the pressure & speed of the air flow and the abrasive media mix at the nozzle are set correctly will provide the ideal conditions for efficient blasting.

To generate the ideal blast nozzle pressure requires a basic understanding of the effect of using a larger compressor capacity (cfm or m³/min) and the effect of increasing or decreasing the nozzle size.

#### **Compressor Capacity**

As a general rule a higher compressor capacity (in cfm or m³/min) generates higher nozzle

#### **Changing the Settings**

There are five key variables that have a significant effect on the productivity of the blasting process.

Compressor cfm Nozzle Size Blast Machine Efficiency Hose Length & Condition Media Valve Setting pressures and air speeds resulting in the opportunity to increase blasting efficiency. For example, if 100psi (6.89bar) is set as a nozzle pressure to generate optimum productivity, then a nozzle pressure of 80psi (5.52bar) will result in 66% blasting efficiency and a nozzle pressure of just 60psi (4.14bar) will result in 50% blasting efficiency.

Such productivity reductions are quite significant and it is important to fully appreciate how the correct equipment choice can increase the effectiveness of your blasting. In the example above, increasing the nozzle pressure from 60psi to 100psi (4.14bar to 6.89bar) will result in the operator being able to double their efficiency and double their work speed. Using a higher compressor capacity also provides the opportunity to reduce grit consumption as explained below.

It is inevitable that a larger capacity compressor will use more fuel. However when blast time can be halved, the additional fuel costs become insignificant.

The above example shows how optimising the equipment settings is critical to performance. This is a function of both the compressor capacity and the blast machine settings. The nozzle pressure, system pressure, airflow and compressor capacity are all linked by a simple mathematical equation. Put simply, using a higher capacity compressor will generate higher system and nozzle pressures and also higher media speeds resulting in the opportunity to use bigger nozzle sizes and thus achieve more efficient blast area coverage.

#### **Nozzle Size**

Using larger nozzle orifice sizes produces a greater blast coverage area but requires a greater air capacity (cfm or m³/min) to 'power' the nozzle. A smaller nozzle size will typically produce a narrower blast pattern and consume less air. To maximise the potential benefits of using a larger nozzle diameter it is essential to 'supply' the nozzle with the correct air & media mix at sufficient speed and pressure.

The choice of nozzle is therefore determined by the available air flow produced by the compressor. If a larger nozzle is chosen then to blast efficiently, a higher air capacity is required.

The table below shows the correlation between volume of air, nozzle size and nozzle pressure and is often used in the industry to select nozzle size. Its real benefit is to select the optimum nozzle size for the nozzle pressure required to carry out the job. If the user requires a nozzle pressure of 100psi (6.89bar) for optimum blasting and is using a ½" #8 nozzle diameter then they would need a 340cfm (9.63m³/min) rated compressor. If a 222cfm compressor was used then the resultant nozzle pressure using the same #8 nozzle would be reduced from 100psi to 60psi (6.89bar to 4.14bar), meaning the blast efficiency would be reduced by 50%.

#### **Blast Machine Efficiency**

The air capacity (in cfm or m³/min), nozzle size and nozzle pressure equation also suggests that blast efficiency will increase further if nozzle pressures above 100psi (6.8bar) are used. Increasing the air capacity from 340cfm to 430cfm then using the same #8 nozzle will generate 125psi (8.62bar) at the nozzle resulting in an increase in blast efficiency of 37% above that obtained from a 340cfm compressor. It is at this point where the pressure capacity of the abrasive blast machines now becomes increasingly important.

Due to the system losses (blast hose leakage and flex, connections, internal friction efficiency, etc.), using an abrasive blast machine with a maximum pot capacity of as low as 120psi (8.27bar) or 150psi (10.34bar) will significantly restrict the nozzle pressure capability and may result in nozzle pressures being limited to significantly below 100psi (6.89bar). This can result in up to 50%, reductions in blast efficiency.

It is for this reason that Elcometer offer two abrasive blast machine pressure ranges. The standard model has a pressure capacity of 180psi (12.41bar) which, when using the correct compressor, can significantly higher nozzle pressures and thus increase blast efficiency by as much as 50% above that possible when using a 150psi (10.34bar) rated abrasive blast machine.

#### Hose Length & Condition

Where long hose lengths are necessary, Elcometer also offer a range of high pressure (H) abrasive blast machines which have a maximum working pressure of 225psi (15.51bar). Due to the inherent pressure losses associated with long hose runs, these machines can continue to supply high nozzle pressures even when the hose length would normally result in low pressure at the nozzle. The Elcometer high pressure blast machines are ideal for use with large capacity compressors and long hose length applications such as those found in many construction sites and shipyards.

#### **Media Valve Setting**

Compressor capacity (in cfm or m³/min) and nozzle size generate the working pressure at the nozzle for optimum blasting. The media flow entering the air stream is controlled by the media valve setting. Whichever design is chosen the valve is designed to ensure the optimum air/media mix to enter the blast hose. Using an 'open' media valve will allow more media to enter the air stream in the hose. The weight of the excess media reduces the air speed which, whilst not negatively affecting the nozzle pressure, will result in lower media speed at the nozzle. Lower media speed results in less cutting action from the abrasive and thus less blasting efficiency.

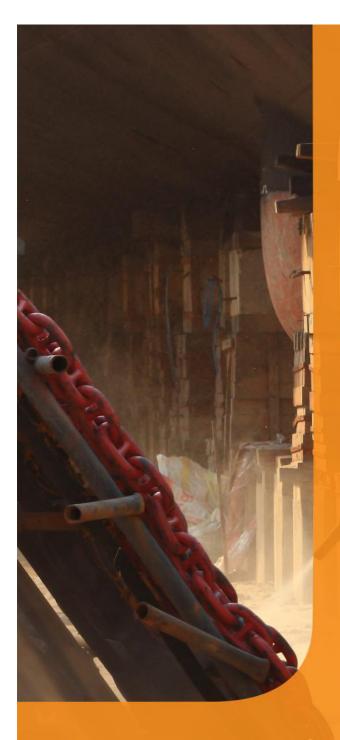
Furthermore, when the system pressure is not optimally set (use of insufficient volume of air or use of oversize or worn nozzle) then media consumption will increase. As media costs are a significant part of the blast process then it is vital for the media valve to be optimally set for the conditions.

1			Nozzle I	Pressure p	osi (bar)				Nozzle Size &
1	50	60	70	80	90	100	125	150	Orifice
	(3.45)	(4.14)	(4.83)	(5.52)	(6.21)	(6.89)	(8.62)	(10.34)	Diameter
	12	13	15	17	19	21	25	29	<b>#2</b>
	(0.34)	(0.37)	(0.42)	(0.48)	(0.54)	(0.59)	(0.71)	(0.82)	3.2mm - 1/8"
in)	25	30	34	38	42	46	56	67	#3
	(0.71)	(0.85)	(0.96)	(1.10)	(1.19)	(1.30)	(1.59)	(1.90)	4.8mm - <sup>3</sup> / <sub>16</sub> "
(m³/min)	47	54	61	68	75	81	98	115	<b>#4</b>
	(1.33)	(1.53)	(1.73)	(1.93)	(2.12)	(2.30)	(2.77)	(3.26)	6.35mm - ½"
cfm (r	76	89	101	114	126	138	169	200	<b>#5</b>
	(2.15)	(2.52)	(2.86)	(3.22)	(3.56)	(3.90)	(4.78)	(5.66)	8mm ⁵⁄₄₀"
Air - c	107	125	143	161	179	197	242	287	<b>#6</b>
	(3.02)	(3.54)	(4.04)	(4.55)	(5.06)	(5.57)	(6.85)	(8.12)	9.5mm - ¾"
of	149	171	193	215	237	259	314	369	# <b>7</b>
	(4.21)	(4.84)	(5.46)	(6.09)	(6.71)	(7.33)	(8.89)	(10.44)	11mm - ¾6"
/olume	193	222	252	281	310	340	412	485	# <b>8</b>
	(5.46)	(6.28)	(7.13)	(7.95)	(8.77)	(9.63)	(11.66)	(13.73)	12.5mm - ½"
>	305	353	401	449	497	545	665	785	<b>#10</b>
	(8.63)	(9.99)	(11.35)	(12.71)	(14.07)	(15.43)	(18.83)	(22.22)	16mm - 5/8"
	401	488	574	661	747	833	1050	1266	<b>#12</b>
	(11.35)	(13.81)	(16.25)	(18.71)	(21.15)	(23.58)	(29.73)	(35.84)	19mm - ¾"

The figures in the table are approximate calculations based on a new/unused nozzle.

Elcometer recommend that air flow rates from the compressor of greater than 50CFM (1.4 m³/min) should be used with these blast machines





# ABRASIVE BLAST MACHINES

#### **Efficient**

Elcometer blast machines have large 38mm (1½") diameter pipework and valving throughout to maximise efficiency and media valves with precision adjustment controls allowing you to blast more effectively than ever before.

# Easy to Use

From the large access doorway with ElcoFit<sup>TM</sup> sealing gaskets, to the quick change remote control valve system for faster servicing, Elcometer blast machines are engineered to be easy to use and quick to maintain - maximising your productivity.

# **Incredibly Tough**

Elcometer abrasive blast machines are engineered out of heavy duty 6mm (1/4") steel with double weld seams throughout, designed to maximise service lifetime.

# **ELCOMETER ENGINEERED**

Every aspect of an Elcometer Blast Machine uses high quality components, manufactured to an industry leading specification and designed and engineered by Elcometer experts.





#### **Heavy Duty Construction**

6mm (1/4") steel wall thickness, double weld seams & coated with a tough 2 pack epoxy multi-coat paint for corrosion protection.



# High Flow Pipework & Valves

Large bore 38mm (1½") pipework throughout ensures efficient airflow and minimal pressure loss.



#### **Concave Dishes**

Our high flow concave dish comes complete with a deflector plate for fast filling & operator safety.



#### **Fast Flow Cones**

45/90° cone to maximise abrasive flow rate.



#### Remote Control Valves

Used with a deadman's handle, the 1½" (38mm) remote control valve minimises air flow loss and shuts the blast system down quickly and safely.



#### **Precision Metering Valves**

Range of precision metering valves offer accurate control of your blast media, even whilst blasting.



#### **Exhaust Manifolds**

Hard working exhaust manifolds allow air to exhaust through the silencer quickly & safely, with minimum wear.



#### **Moisture Separators**

High performance moisture separator prevents water and oil from entering the blast pot.



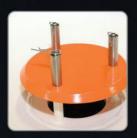
Hard-wearing Mixer T's

Machined out of a single block of high grade machine steel, the hard-wearing Elcometer Mixer T is designed to last.



#### Serviceable Exhaust T's

When a blast machine exhausts, it can quickly wear out elbow joints, that is why Elcometer Exhaust T's are fitted with sacrificial wear plugs to minimise wear and maximise lifetime.



#### **Adjustable Deflector Plates**

The adjustable height deflector plate is designed to prevent abrasive escaping the blast machine when the pop up valve is engaged - keeping you safe.



#### **Large Inspection Access**

Large, easy to remove access doors to make maintenance easier and faster.



#### Reinforced Pop Up Valves

The heavy duty internal pop up valve is long lasting and quickly responds to pressurisation.



#### Narrow & Protected

Designed to fit through most standard doorways, valves and pipework are protected, even when laid down during transportation.



**Flexible Pusher Lines** 

Flexible pusher line ensures air flow without pressure loss caused by elbows.



#### Air Manifold

The Elcometer Air Manifold allows multiple outlets for ancillary equipment and a pressure relief valve.



Waterproof Sieves & Lids

Optional sieves & lids are designed to fit over the top of the machine to prevent water ingress, keeping the media dry.



#### **Balanced by Design**

Easy to manoeuvre on site by one person, no matter their size.



**Elcometer** blast machines are available in a range of easy-to-order kits to get you up and running as quickly and easily as possible.

#### Blast Kit 1



- Elcometer Abrasive Blast Machine
- RCV4000+ Remote Control Valve with Silencer, Exhaust & Safety Petcock
- 20m¹ (65.6ft) Pneumatic Control Hose with Deadman's Handle (DMHII)
- Air Manifold
- Choke Valve and Pusher Line
- Abrasive Metering Valve & Metal Pot Coupling
- Hard Wearing Mixer T<sup>2</sup>
- Pressure Test Certificate
- Moisture Separator

#### Blast Kit 2



All of Blast Kit 1 plus:

 20m¹ (65.6ft) 1¼" (32mm) ID Blast Hose Assembly complete with Cast Iron Hose Coupling and Nylon Nozzle Holder

#### **Personal Protection Kits**

**Elcometer** offers a full range of personal protection & operator safety equipment which includes blast helmets, protective suits, capes and gloves, breathe air filters and breathe air hose.

For more information, see page 8-0.



<sup>110</sup>m (32.8ft) for Elcometer 1020 variants



Whether you are blasting at a dockyard or in a blast room, Elcometer offers a range of blast machines, from 20 up to 285 litres (0.7 - 10.06cu ft), available with 12bar (174psi) working pressure to maximise productivity.





	Options	Elcometer 1020	Elcometer 1440
	Volume	20 litres (0.70cu ft)	40 litres (1.41cu ft)
Capacity	Aluminium Grit	47kg (102lbs)	94kg (206lbs)
	Steel Shot/Garnet	88kg (193lbs)	176kg (388lbs)
Model Options	Portable		
Model Oplions	Static		
Valve Options	FV/MFV: Flat Valve/ Mini Flat Valve GV/MGV: General Valve/ Mini General Valve AGV: Automatic General Valve	MFV MGV	FV GV AGV
	Pot Diameter	254mm (10")	356mm (14")
	Height	880mm (35")	1015mm (40")
Dimensions	Width	565mm (22")	615mm (24")
	Depth	562mm (22")	714mm (28")
	Weight	70kg (154lbs)	95kg (209lbs)

**Elcometer** standard blast machines are **CE approved** and fully tested and certified to **PED 2014/68EU** with a maximum working pressure of 12bar (174psi).





Elcometer 1460	Elcometer 20100	Elcometer 24200	Elcometer 24285
60 litres (2.11cu ft)	100 litres (3.53cu ft)	200 litres (7.06cu ft)	285 litres (10.06cu ft)
140kg (308lbs)	234kg (515lbs)	468kg (1031lbs)	667kg (1469lbs)
264kg (580lbs)	440kg (971lbs)	880kg (1942lbs)	1254kg (2767lbs)
	•		
FV GV AGV	FV GV AGV	FV GV AGV	FV GV AGV
356mm (14")	508mm (20")	610mm (24")	610mm (24")
1165mm (46")	1175mm (46")	1380mm (54")	1665mm (66")
615mm (24")	704mm (28")	794mm (31")	794mm (31")
714mm (28")	865mm (34")	1109mm (44")	1109mm (44")
107kg (236lbs)	153kg (337lbs)	205kg (452lbs)	231kg (509lbs)

# Elcometer 1020

20 litre 0.70cu ft The Elcometer 1020 is a 20 litre (0.70cu ft) 10" Portable Abrasive Blast Machine ideal for small blasting applications and touch-up work.

Ideal for touch-up applications and spot blasting

Compact, low profile size is easy to fill with abrasive

Heavy duty wheels are ideal for manoeuvring in small spaces

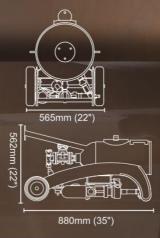
Available with a range of media valves to suit your application

Tough 6mm (1/4") construction ensures long life span

Easy & quick to service







Kit Selection	Pa	rt Ni	ımb	ers
Elcometer Blast Machine Kits are available with:	Ki	it 1	Ki	it 2
Mini Flat Valve (MF)  Mini General Valve (MG)	M1020-MFV1-B	M1020-MGV1-B	M1020-MFV2-B	M1020-MGV2-B
10" (254mm) 20 litre (0.70cu ft) Abrasive Blast Machine	•	•	•	•
Pressure Test Certificate		•	•	
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer		•	•	•
10m (32.8ft) Pneumatic Control Hose & Deadman's Handle (DMHII)		•		
Choke Valve and Pusher Line	•	•		
Abrasive Metering Valve with Flanged T <sup>1</sup> and Metal Pot Coupling	MF	MG	MF	MG
Moisture Separator		•		
10m (32.8ft) 13mm (½") ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder			•	•
Externally Mounted Sieve and Lid			•	

Elcometer 1020 Portable Abrasive E	Blast Machine Techn	ical Specification
Capacity <sup>2</sup> Volume Aluminium Grit Steel Shot/Garnet	20 litres 47kg 88kg	0.70cu ft 102lbs 193lbs
Pot Diameter	254mm	10"
Height	880mm	35"
Width	565mm	22"
Depth	562mm	22"
Weight	70kg	154lbs
Pipework Diameter	19mm	3/4"
Maximum Working Pressure (WP)3	12bar	174psi
Operating Temperature Range	0 to 60°C	32 to 140°F



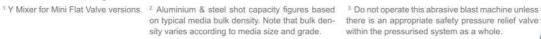


Blast Helmets see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



elcometer.com





Kit Selection				F	art	Nı	ımt	oer	s
Elcometer Blast Machine Kits a	re available with:	-		ŀ	<it< th=""><th>1</th><th>ŀ</th><th>(it 2</th><th>2</th></it<>	1	ŀ	(it 2	2
Flat Valve (F)	General Media Valve (G)	Automatic General Valve (A)		M1440-FV1-B	M1440-GV1-B	M1440-AGV1-B	M1440-FV2-B	M1440-GV2-B	M1440-AGV2-B
14" (355mm) 40 litre (1.41cu ft)	Abrasive Blast Machine			0		0	•	0	•
Pressure Test Certificate						0			•
RCV4000+ Remote Control Va	lve with Air Manifold, Exh	aust & Silencer		•	•	•	•	•	•
20m (65.6ft) Pneumatic Contro	l Hose & Deadman's Har	dle (DMHII)			0	0			•
Choke Valve and Pusher Line				•		•	•	•	•
Abrasive Metering Valve with M	lixer T¹ and Metal Pot Co	upling		F	G	Α	F	G	Α
Moisture Separator					0	0			•
20m (65.6ft) 11/4" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder							•	0	•
Externally Mounted Sieve and	Lid								•

#### **Elcometer 1440 Portable Abrasive Blast Machine Technical Specification** Capacity<sup>2</sup> Volume 40 litres 1.41cu ft **Aluminium Grit** 94kg 206lbs Steel Shot/Garnet 176kg 388lbs Pot Diameter 355mm 14" Height 1015mm 40" Width 615mm 24" 714mm Depth 28" Weight 95kg 209lbs Pipework Diameter 38mm 11/2" Maximum Working Pressure (WP)3 12bar 174psi

0 to 60°C





Operating Temperature Range

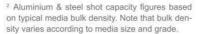
Blast Helmets see page 8-4

32 to 140°F

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>&</sup>lt;sup>3</sup> Do not operate this abrasive blast machine unless there is an appropriate safety pressure relief valve within the pressurised system as a whole.





# Elcometer 1460

60 litre 2.11cu ft The Elcometer 1460 Portable Abrasive Blast Machine is ideal for mobile contractors or small blast rooms.

Ideal for small blast rooms and spot blasting

Small size makes it easy to manoeuvre

Available with a range of media valves to suit your application

Heavy duty 6mm (1/4") construction

Easy & quick to service







1065mm (46")

elcometer

Kit Selection		Pa	art	Nι	ımt	oer:	s
Elcometer Blast Machine Kits are available with:		Ki	it 1		ŀ	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Automatic General Valve (A)	M4460 EV4 B		M1460-GV1-B	M1460-AGV1-B	M1460-FV2-B	M1460-GV2-B	M1460-AGV2-B
14" (355.6mm) 60 litre (2.11cu ft) Abrasive Blast Machine	•	)	•		•		•
Pressure Test Certificate		)		0			•
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•	)	•	0	•	•	•
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)		)	•	0			•
Choke Valve and Pusher Line		)	0	0			•
Abrasive Metering Valve with Mixer T1 and Metal Pot Coupling	F	: (	G	Α	F	G	Α
Moisture Separator	•	,	•	•			•
20m (65.6ft) 11/4" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Hol	der				•	•	•
Externally Mounted Sieve and Lid					•		•

#### **Elcometer 1460 Portable Abrasive Blast Machine Technical Specification** Capacity<sup>2</sup> Volume 60 litres 2.11cu ft **Aluminium Grit** 140kg 308lbs Steel Shot/Garnet 264kg 580lbs Pot Diameter 355mm 14" 46" Height 1065mm Width 615mm 24" Depth 714mm 28" Weight 95kg 209lbs Pipework Diameter 11/2" 38mm Maximum Working Pressure (WP)3 12bar 174psi Operating Temperature Range 0 to 60°C 32 to 140°F



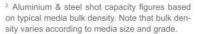


Blast Helmets see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>&</sup>lt;sup>3</sup> Do not operate this abrasive blast machine unless there is an appropriate safety pressure relief valve within the pressurised system as a whole.







Kit Selection				F	ar	t Ni	uml	ber	s			
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:	1	Kit	1		Kit:	2	-	Kit	1	ı	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Valve (A)  Automatic General Valve (A)	M20100-FV1-B	M20100-GV1-B	M20100-AGV1-B	M20100-FV2-B	M20100-GV2-B	M20100-AGV2-B	M20100S-FV1-B	M20100S-GV1-B	M20100S-AGV1-B	M20100S-FV2-B	M20100S-GV2-B	M20100S-AGV2-B
20" (508mm) 100 litre (3.53cu ft) Abrasive Blast Machine	•	0				0			0	0		
Pressure Test Certificate			•		•	0	0	0		0	•	0
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•	•			•	0				•	•	•
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)					•	0	0	0	0	0	•	•
Choke Valve and Pusher Line	•	•			•		0		0		•	•
Abrasive Metering Valve with Mixer T <sup>1</sup> and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator	•						0	0	0			
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	•				•	•	
Externally Mounted Sieve and Lid					•							

#### **Elcometer 20100 Abrasive Blast Machine Technical Specification** Capacity<sup>2</sup> Volume 100 litres 3.53cu ft **Aluminium Grit** 515lbs 234kg Steel Shot/Garnet 440kg 971lbs Pot Diameter 508mm 20" Height 46" 1175mm Width 704mm 28" Depth 34" 865mm Weight 337lbs 153kg Pipework Diameter 38mm 11/2" Maximum Working Pressure (WP)3 12bar 174psi Operating Temperature Range 0 to 60°C 32 to 140°F





**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>&</sup>lt;sup>2</sup> Aluminium & steel shot capacity figures based sity varies according to media size and grade.

<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.





Elcometer 24200

200 litre 7.06cu ft The Elcometer 24200 Abrasive Blast Machine is ideal for continuous high production blasting as its large capacity reduces down time refilling the hopper.

Ideal for high volume work, easy to fill with large capacity

Choice of static or twin wheeled portable machines that are safe and easy to manoeuvre

Available with a range of media valves to suit your application

Heavy duty 6mm (1/4") construction

Easy & quick to service





Kit Selection				F	ar	Nı	uml	ber	s			
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:		Kit	1	-	Kit :	2	-	Kit	1	- 1	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Valve (A)  Automatic General Valve (A)	M24200-FV1-B	M24200-GV1-B	M24200-AGV1-B	M24200-FV2-B	M24200-GV2-B	M24200-AGV2-B	M24200S-FV1-B	M24200S-GV1-B	M24200S-AGV1-B	M24200S-FV2-B	M24200S-GV2-B	M24200S-AGV2-B
24" (610mm) 200 litre (7.06cu ft) Abrasive Blast Machine		0							0		•	
Pressure Test Certificate	•	•	•	0	0	0	0	0		•	•	0
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•				•						•	•
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)	•					0		0	0		•	
Choke Valve and Pusher Line	•				•			•	0	•	•	•
Abrasive Metering Valve with Mixer T1 and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator						0	0	0	0		•	
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	•				•	•	
Externally Mounted Sieve and Lid					•							

#### **Elcometer 24200 Abrasive Blast Machine Technical Specification** Capacity<sup>2</sup> Volume 200 litres 7.06cu ft 468kg **Aluminium Grit** 1031lbs Steel Shot/Garnet 880kg 1942lbs Pot Diameter 610mm 24" Height 54" 1380mm Width 794mm 31" Depth 1109mm 44" Weight 205kg 452lbs Pipework Diameter 38mm 11/2" Maximum Working Pressure (WP)3 12bar 174psi 0 to 60°C Operating Temperature Range 32 to 140°F



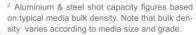


**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

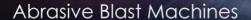
Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.





# Elcometer 24285

285 litre 10.06cu ft The Elcometer 24285 Abrasive Blast Machine is ideal for continuous high production blasting, on site or in a blast room.

Ideal for site work or blast room installation

A single blast machine can be used by one or two operators

Choice of static or twin wheeled portable machine that is safe and easy to manoeuvre

Available with a range of media valves to suit your application

Heavy duty 6mm (1/4") construction

Easy & quick to service





1665mm (66")

Kit Selection				F	ar	t Nu	uml	ber	s			
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:	- 1	Kit '	1	- 1	Kit :	2	-	Kit	1	. 1	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Automatic General Valve (A)	M24285-FV1-B	M24285-GV1-B	M24285-AGV1-B	M24285-FV2-B	M24285-GV2-B	M24285-AGV2-B	M24285S-FV1-B	M24285S-GV1-B	M24285S-AGV1-B	M24285S-FV2-B	M24285S-GV2-B	M24285S-AGV2-B
24" (610mm) 285 litre (10.06cu ft) Abrasive Blast Machine	•	0			•				0	0	0	
Pressure Test Certificate	•		•	0	0	•	0	0			•	0
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•	•			•						•	•
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)	•					0		0	0		•	•
Choke Valve and Pusher Line	•	•			•		0	•	0	•	•	•
Abrasive Metering Valve with Mixer T <sup>1</sup> and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator		0	0		•	0	0	0	0			
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	0				•	•	0
Externally Mounted Sieve and Lid					•	•					•	•

#### **Elcometer 24285 Abrasive Blast Machine Technical Specification** Capacity<sup>2</sup> Volume 285 litres 10.06cu ft **Aluminium Grit** 1469lbs 667kg Steel Shot/Garnet 1254kg 2767lbs Pot Diameter 610mm 24" Height 66" 1665mm Width 794mm 31" Depth 1109mm 44" Weight 509lbs 231kg Pipework Diameter 38mm 11/2" Maximum Working Pressure (WP)3 12bar 174psi 0 to 60°C Operating Temperature Range 32 to 140°F



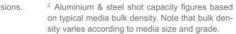


**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.









Abrasive Blast Machines are designed to provide the correct pressure and flow of a mix of air and blast media through the blast nozzle. The pressure of the air and media mix at the nozzle is critical in terms of providing the optimum conditions for efficient blasting.

Nozzle pressure below 100psi (6.89bar) will dramatically reduce the process efficiency and result in greater media usage and slower blast coverage.

Generating the sufficient blast nozzle pressure to produce the required blast pattern is dependent upon the compressor pressure, the blast machine pressure and the total system pressure loss caused by hose length, age, wear, media type etc.

Studies have shown that nozzle pressures of 100psi (6.89bar) provide up to 40% more efficient blast coverage than nozzle pressures of 72psi (5bar).

To provide the optimum blast nozzle pressure of 100psi (6.89bar) or greater, it is often necessary to use a blast machine that is capable of running at pressures significantly above the required nozzle pressure.

The inherent pressure drop that occurs when using long hose lengths or worn hose means that an abrasive blast machine with a maximum working pressure of 150psi (10.34bar) can produce significantly less than 100psi (6.89bar) at the nozzle - which results in a reduction to your blast efficiency.

To overcome this, Elcometer offer a range of high pressure (H) abrasive blast machines that are capable of operating at 217psi (15bar) allowing you to overcome any efficiency losses associated with long or worn hose and still generate the pressure you require at the blast nozzle, improving your efficiency.

**Elcometer** high pressure blast machines are **CE approved** and fully tested and certified to **PED 2014/68EU** with a maximum working pressure of 15bar (217psi).









	Options	Elcometer 20100H	Elcometer 24200H	Elcometer 24285H
	Volume	100 litres (3.53cu ft)	200 litres (7.06cu ft)	285 litres (10.06cu ft)
Capacity	Aluminium Grit	234kg (515lbs)	468kg (1031lbs)	667kg (1469lbs)
	Steel Shot/ Garnet	440kg (971lbs)	880kg (1942lbs)	1254kg (2767lbs)
Model	Portable		•	•
Options	Static		<u> </u>	
Valve Options	FV: Flat Valve GV: General Valve AGV: Automatic General Valve	FV GV AGV	FV GV AGV	FV GV AGV
	Pot Diameter	508mm (20")	610mm (24")	610mm (24")
	Height	1175mm (46")	1380mm (54")	1665mm (66")
Dimen- sions	Width	704mm (28")	794mm (31")	794mm (31")
	Depth	865mm (34")	1109mm (44")	1109mm (44")
	Weight	153kg (337lbs)	205kg (452lbs)	231kg (509lbs)

# High Pressure Blast Machines

# Elcometer 20100H

100 litre 3.53cu ft The Elcometer 20100H High Pressure Abrasive Blast Machine is ideal for mobile contractors requiring continuous high production blasting.



# High Pressure Blast Machines

Kit Selection				F	ar	t Ni	um	ber	s			
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:	3	Kit	1		Kit :	2		Kit	1	. 1	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Valve (A)  Automatic General Valve (A)	M20100H-FV1-B	M20100H-GV1-B	M20100H-AGV1-B	M20100H-FV2-B	M20100H-GV2-B	M20100H-AGV2-B	M20100HS-FV1-B	M20100HS-GV1-B	M20100HS-AGV1-B	M20100HS-FV2-B	M20100HS-GV2-B	M20100HS-AGV2-B
20" (508mm) 100 litre (3.53cu ft) Abrasive Blast Machine	•	•	•	•	•		•	0	0		•	•
Pressure Test Certificate		•	•	0		•	•	0	0	0	0	
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer							0	0	0		•	
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)		•	•			•	0		0			•
Choke Valve and Pusher Line	•						0	0			•	•
Abrasive Metering Valve with Mixer T <sup>1</sup> and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator		•	•	•		0	0		0	0	•	•
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	•				•	•	•
Externally Mounted Sieve and Lid				•	•	•					•	•

# **Elcometer 20100H High Pressure Blast Machine Technical Specification**

Capacity <sup>2</sup>						
Volume	100 litres	3.53cu ft 515lbs				
Aluminium Grit	234kg					
Steel Shot/Garnet	440kg	971lbs				
Pot Diameter	508mm	20"				
Height	1175mm	46"				
Width	704mm	28"				
Depth	865mm	34"				
Weight	153kg	337lbs				
Pipework Diameter	38mm	1½"				
Maximum Working Pressure (WP) <sup>3</sup>	15bar	217psi				
Operating Temperature Range	0 to 60°C	32 to 140°F				



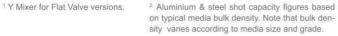


**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4

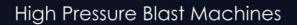


<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.









# Elcometer 24200H

200 litre 7.06cu ft The Elcometer 24200H High Pressure Abrasive Blast Machine is ideal for continuous high production blasting as its large capacity reduces refill time.

Ideal for high volume work, easy to fill with large capacity

Choice of static or twin wheeled portable machines that are safe and easy to manoeuvre

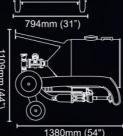
Available with a range of media valves to suit your application

Heavy duty 6mm (1/4") construction

Easy & quick to service









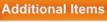
#### High Pressure Blast Machines

Kit Selection	Part Numbers											
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:	- 1	Kit '	1		Kit:	2	-	Kit	1	1	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Valve (A)  Automatic General Valve (A)	M24200H-FV1-B	M24200H-GV1-B	M24200H-AGV1-B	M24200H-FV2-B	M24200H-GV2-B	M24200H-AGV2-B	M24200HS-FV1-B	M24200HS-GV1-B	M24200HS-AGV1-B	M24200HS-FV2-B	M24200HS-GV2-B	M24200HS-AGV2-B
24" (610mm) 200 litre (7.06cu ft) Abrasive Blast Machine	•	•		•	•			0	0	•	•	•
Pressure Test Certificate		•	•		•	•		0	0	0	0	
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•					0		0	0			
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)						•	0	0	0	0		•
Choke Valve and Pusher Line							0	0		0	•	•
Abrasive Metering Valve with Mixer T <sup>1</sup> and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator	•	•		•		0	0	0	0	0	•	
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	•				•	•	
Externally Mounted Sieve and Lid					•	•				•	•	

#### **Elcometer 24200H High Pressure Blast Machine Technical Specification**

Capacity <sup>2</sup>		
Volume	200 litres	7.06cu ft
Aluminium Grit	468kg	1031lbs
Steel Shot/Garnet	880kg	1942lbs
Pot Diameter	610mm	24"
Height	1380mm	54"
Width	794mm	31"
Depth	1109mm	44"
Weight	205kg	452lbs
Pipework Diameter	38mm	1½"
Maximum Working Pressure (WP) <sup>3</sup>	15bar	217psi
Operating Temperature Range	0 to 60°C	32 to 140°F







**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4

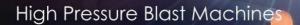


<sup>&</sup>lt;sup>2</sup> Aluminium & steel shot capacity figures based sity varies according to media size and grade.

<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.







#### Elcometer 24285H

285 litre 10.06cu ft The Elcometer 24285H High Pressure Abrasive Blast Machine is ideal for large scale applications requiring continuous high production blasting.

Ideal for site work or blast room installation

A single blast machine can be used by one or two operators

Choice of static or twin wheeled portable pot

Available with a range of media valves to suit your application

Heavy duty 6mm (1/4") construction

Easy & quick to service



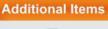
#### High Pressure Blast Machines

Kit Selection	Part Numbers											
		F	ort	abl	е				Sta	atic		
Elcometer Blast Machine Kits are available with:	- 1	Kit '	1		Kit:	2	-	Kit	1	ŀ	Kit 2	2
Flat Valve (F)  General Media Valve (G)  Valve (A)  Automatic General Valve (A)	M24285H-FV1-B	M24285H-GV1-B	M24285H-AGV1-B	M24285H-FV2-B	M24285H-GV2-B	M24285H-AGV2-B	M24285HS-FV1-B	M24285HS-GV1-B	M24285HS-AGV1-B	M24285HS-FV2-B	M24285HS-GV2-B	M24285HS-AGV2-B
24" (610mm) 285 litre (10.06cu ft) Abrasive Blast Machine	•	•		•	•			0	0		•	•
Pressure Test Certificate		•	•		•	•	•	0	0	0	0	
RCV4000+ Remote Control Valve with Air Manifold, Exhaust & Silencer	•							0	0			
20m (65.6ft) Pneumatic Control Hose & Deadman's Handle (DMHII)		•	•		•	•	0		0	0		
Choke Valve and Pusher Line							0	0		•	•	•
Abrasive Metering Valve with Mixer T <sup>1</sup> and Metal Pot Coupling	F	G	Α	F	G	Α	F	G	Α	F	G	Α
Moisture Separator	•	•		•		0	0	0	0	0	•	
20m (65.6ft) 1¼" (32mm) ID Blast Hose with Cast Iron Hose Couplings & Nylon Nozzle Holder				•	•	•				•	•	
Externally Mounted Sieve and Lid				•	•	•				•	•	•

#### Elcometer 24285H High Pressure Blast Machine Technical Specification

Capacity <sup>2</sup>		
Volume	285 litres	10.06cu ft
Aluminium Grit	667kg	1469lbs
Steel Shot/Garnet	1254kg	2767lbs
Pot Diameter	610mm	24"
Height	1665mm	66"
Width	794mm	31"
Depth	1109mm	44"
Weight	231kg	509lbs
Pipework Diameter	38mm	11/2"
Maximum Working Pressure (WP) <sup>3</sup>	15bar	217psi
Operating Temperature Range	0 to 60°C	32 to 140°F







**Blast Helmets** see page 8-4

Blast Nozzles see page 6-7

Protective Clothing see page 8-20

Blast Hoses see page 5-4



<sup>&</sup>lt;sup>2</sup> Aluminium & steel shot capacity figures based sity varies according to media size and grade.

<sup>3.</sup> Do not operate this abrasive blast machine unless on typical media bulk density. Note that bulk denwithin the pressurised system as a whole.









Elcometer AGV
Automatic
General Valve

Elcometer AGV Automatic General Valve ensures precision abrasive control and fail-safe shut down of both the blast stream and media flow.

Media flow indicator and rubber liner wear – indicator

Ideal for use on all blast machines - up to 15bar (217psi)

Precision abrasive control to ensure maximum efficiency even whilst blasting

Safely adjust media flow when in use to save time

elcoTOUGH™ rubber liner can be quickly replaced without disconnecting valve

100% abrasive shut off - reducing wastage





Replace the elcoTOUGH™ rubber valve liner with just 2 bolts

Ideal for metering fine, heavy or aggressive abrasive materials, such as shot, grit & aluminium oxide, the pinch valve style design prevents the valve body from coming into contact with the abrasive stream as it is protected by the long life **elcoTOUGH**<sup>TM</sup> rubber valve liner, which can be quickly replaced when worn.

#### Safe & Efficient

The Elcometer Automatic General Valve has a built-in, fail-safe feature that shuts off both the blast stream and media flow at the handle quickly and safely - reducing wastage.



#### Easy to Use

With a built-in media flow indicator the Elcometer Automatic General Valve allows the operator to adjust the media flow even during blasting, ensuring precise abrasive metering for an even, regulated flow.



#### Fast to Service

To replace the hardwearing elcoTOUGH™ rubber valve liner, the Elcometer Automatic General Valve does not have to be removed from the blast machine, it can be quickly replaced without training.



#### **Flexible**

The Elcometer AGV Automatic General Valve fits most abrasive blast machines on the market.

#### **Elcometer Automatic General Valve**

**Elcometer AGV** 

Pa	rt -	N	U	m	Ь	e	S

Part Number Description

AGV-B Elcometer Automatic General Valve - complete with elcoTOUGH™ Rubber Valve Liner



For replacement elcoTOUGH™ rubber valve liners, see page 2-6

Elcometer GV General Valve The Elcometer GV General Valve ensures precise abrasive metering for an even, regulated flow. With its long life rubber liner it's highly durable, extremely fast and easy to service - reducing downtime.

Media flow indicator and rubber liner wear indicator

Ideal for use on all blast machines - up to 15bar (217psi)

Precision abrasive control to ensure maximum efficiency

Safely adjust media flow when in use to save time

elcoTOUGH<sup>TM</sup> rubber liner can be quickly replaced without disconnecting valve

100% abrasive shut off when fully closed



Can be upgraded to an Elcometer AGV using a conversion kit, see page 2-9



Replace the elcoTOUGH™ rubber valve liner with just 2 bolts

Suitable for all media types, the design prevents the valve body from coming into contact with the abrasive stream as the abrasive stream flows through the elcoTOUGH<sup>TM</sup> rubber valve liner, which may be quickly replaced when worn.

#### **Efficient**

With a built-in media flow indicator the Elcometer general valves allow the operator to adjust the media flow when in use, ensuring precise abrasive metering for an even, regulated flow.



#### Easy to Use

Accurate, wear resistant and suitable for all abrasive media types, the Elcometer general valves are ideal for metering heavy or aggressive abrasive materials, such as steel shot, grit or aluminium oxide.



#### **Flexible**

Available in two versions, the Elcometer Mini General Valve (MGV) for the Elcometer 1020 Blast Machine and the larger 1" (25mm) Elcometer General Valve (GV) which fits most abrasive blast machines on the market.



#### **Elcometer General Valve**

**Elcometer GV** 

Part Numbe	ers
Part Number	Description
GV-B	Elcometer General Valve - complete with elcoTOUGH™ Rubber Valve Liner
MGV-B	Elcometer Mini General Valve for use with Elcometer 1020 - complete with Mini elcoTOUGH™ Rubber Valve Liner

For replacement elcoTOUGH™ rubber valve liners, see page 2-6



elcometer.com

#### elcoTOUGH™

#### Elcometer elcoTOUGH™ Rubber Valve Liner

The elcoTOUGHTM liners last more than 3 times longer and can be quickly replaced without removing the valve from the machine.

Made from tough, abrasion resistant natural rubber

Ideal for metering all types of abrasive materials

The elcoTOUGH™ rubber liner can be quickly replaced without disconnecting the valve



Part Numbe	rs
Part Number	Description
Standard Valve	Liner
GV-LINER1	1" (25mm) GV & AGV elcoTOUGH™ Rubber Valve Liner (x1)
GV-LINER5	1" (25mm) GV & AGV elcoTOUGH™ Rubber Valve Liner (x5)
GV-LINER20	1" (25mm) GV & AGV elcoTOUGH™ Rubber Valve Liner (x20)
Mini Valve Liner	
MGV-LINER1	½" (13mm) MGV elcoTOUGH™ Rubber Valve Liner (x1)
MGV-LINER5	½" (13mm) MGV elcoTOUGH™ Rubber Valve Liner (x5)
MGV-LINER20	½" (13mm) MGV elcoTOUGH™ Rubber Valve Liner (x20)

#### Mixer T

The Elcometer Mixer T is made from ultra-hard wearing machined steel so that it lasts longer and, when it starts to wear out, simply rotate it by 180° to double its service life.





Connects to the base of GV & AGV abrasive media valves, allowing abrasive media to mix with air from the pusher line

Machined from a solid piece of hard wearing steel

Internal shoulder prevents grit from entering thread, minimising wear & maximising lifetime

Part	Numbers		
#	Part Number	Description	
1	MT28553	11/2" (38mm) Mixer T for Elcometer GV and AGV Abrasive Media Valves	
Spai	re Parts		
#	Part Number	Description	
2	MT29710	1½" (38mm) Male/Male Adaptor - 60° CONE	
3	MT29014	1½" (38mm) BSP Forged Hex Nipple 3000lb	
4	MT30002	1½" (38mm) BSP Pot Coupling for Elcometer ABM	

#### Mini Flanged T



The Elcometer Mini Flanged T connects to the base of the Elcometer Mini General Valve (MGV) used on the Elcometer 1020, allowing abrasive media to mix with the air from the pusher line.

### Part Numbers Part Number Description MT29246 ½" (13mm) Flanged & Equal T Assembly for use with Elcometer MGV Mini General Valve

#### 8 Hole Pot Flange



The Elcometer 8 Hole Pot Flange has 8 holes to ensure accurate orientation of the media valve without having to over tighten the flange into the pot coupling.

Part Number	s	
Part Number	Description	
MT28536	1¼" to ½" (32mm to 13mm) Reducing Nipple Flange Assembly for Elcometer 1020 for use with MGV Abrasive Valve	
MT28552	1¼" to 1" (32mm to 25mm) Reducing Nipple Flange Assembly for Elcometer Blast Machines using the GV or AGV Abrasive Valves	
MT30021	1¼" to ½" (32mm to 13mm) Reducing Hex Nipple	
MT30530	½" (13mm) Flange	
MT30528	11/4" to 1" (32mm to 25mm) Reducing Hex Nipple	
MT29553	1" (25mm) Flange	

#### Elcometer GV

#### **GV-AGV Conversion Kit**

The Elcometer GV Conversion Kit converts an Elcometer GV general valve into an automatic general valve, giving you precision abrasive control and fail-safe shut down of both the blast stream and media flow.

- Easy to retrofit to the Elcometer GV general valves
- Fail-safe feature that quickly shuts off both the blast stream and media flow at the handle
- Stops abrasive from exiting the blast pot when the deadman's handle is released
- Safely adjust media flow, even during blasting





Part Numb	pers and the second sec	
Part Number	Description	
GVAGV-KIT	GV-AGV Conversion Kit	

#### Elcometer UV

#### **Elcometer UV Abrasive Media Valve**

The Elcometer UV Abrasive Media Valve offers proven productivity through the precise metering of abrasive. The UV is fitted with a clean out port and has easy access to wear components for maintenance.



Part Numb	ers
Part Number	Description
MT30155	1½" (38mm) UV Abrasive Media Valve
MT30156	1¼" (32mm) UV Abrasive Media Valve

#### Abrasive Media Valves

**Elcometer FV** Flat Valve

Designed for use with mineral abrasives Elcometer Flat Valves provide precise metering of abrasive from the blast pot to the hose, ensuring less wastage.

45° incline design ensures uniform mixture of air and abrasive

Manufactured from high grade aluminium with durable steel control discs for metering media flow

Easy access service port to clear the valve

Designed to work with mineral abrasives

Locking nut allows user to define how open the media valve is

Service kits available for simple maintenance

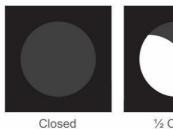


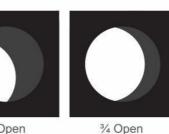
#### **Elcometer FV**

Part Numb	ers
Part Number	Description
MFV-B	Elcometer Mini Flat Valve for use with Elcometer 1020 - BSP Thread
FV-B	Elcometer Flat Valve suitable for all Elcometer blast machines except the Elcometer 1020 - BSP Thread

#### Flat Valve Abrasive Flow Control

As the handle is rotated. the metal disc slides across the flow tube, metering the abrasive flow.







½ Open

#### **Flat Valve Pot Connection**

The Flat Valve Pot Connection is suitable for all Elcometer blast machines except the Elcometer 1020.

Part Numbers	
Part Number	Description
MT30013	11/4" (32mm) Male/Female Equal Union Taper Seat for use with Elcometer FV
MT30012	11/4" (32mm) BSP Hex Nipple for use with Elcometer FV



#### **Mini Flat Valve Pot Connection**

The Mini Flat Valve Pot Connection is suitable for the Elcometer 1020 abrasive blast machines.

Part Numbers	
Part Number	Description
MT30021	11/4" x 1/2" (32mm x 13mm) Reducing Hex Nipple for use with Elcometer MFV
MT30020	½" (13mm) Female/Female Union Taper Seat for use with Elcometer MFV
MT28567	½" (13mm) Nipple 60mm Long for use with Elcometer MFV



#### Flat Valve 45° Mixer

The Flat Valve 45° Mixer is rubber lined for extra wear protection. The mixer directs the media into the flow of air effectively. Suitable for all Elcometer blast machines except the Elcometer 1020.

Part Numbers	
Part Number	Description
MT28562	11/4" (32mm) 45° Y - Rubber Lined for use with Elcometer FV
MT30019	1½" (38mm) Male, 60° Cone x 1¼" Male Adaptor for use with Elcometer FV
MT30009	11/4" (32mm) Forged Nipple 3000lb for use with Elcometer FV

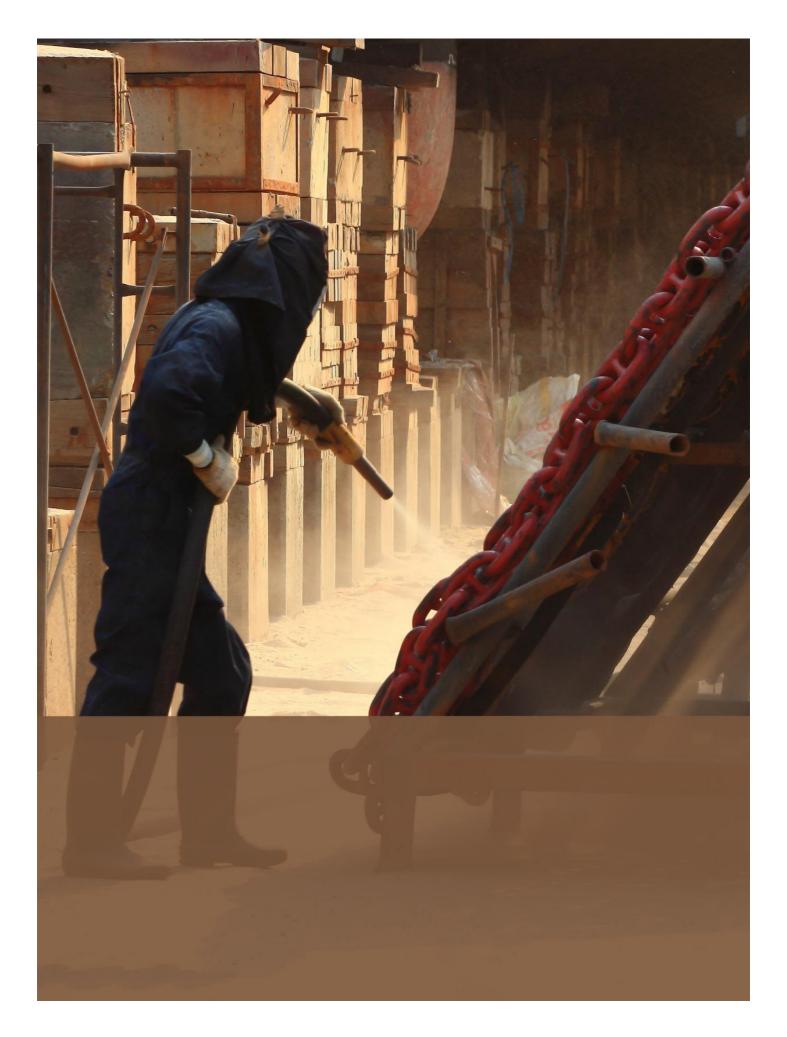


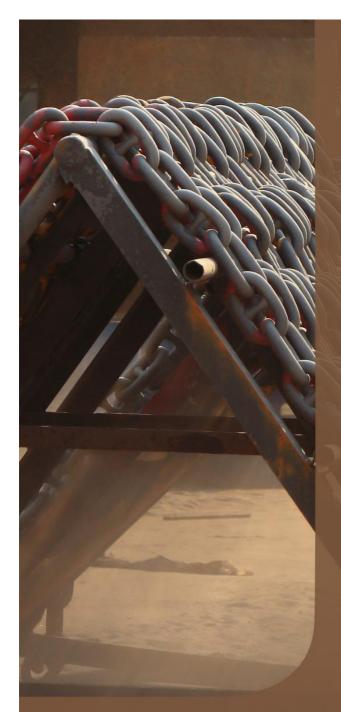
#### Mini Flat Valve Equal T

The Mini Flat Valve Equal T connects to the base of the Elcometer Mini Flat Valve, allowing abrasive media to mix with the air from the pusher line. Suitable for Elcometer 1020 abrasive blast machines.

Part Numbers	
Part Number	Description
MT28563	½" (13mm) Flanged Equal T for use with Elcometer MFV
MT29224	1/2" (13mm) Forged Nipple 3000lb (x2) for use with Elcometer MFV
MT28540	3/4" (19mm) 60° Cone x ½" (13mm) Adaptor for use with Elcometer MFV







# REMOTE CONTROL VALVES, HANDLES & ACCESSORIES

#### Stay in Control

Elcometer's state-of-the-art RCV4000 & RCV4000+ Remote Control Valves allow you to safely control the blast machine at the nozzle. The high flow exhaust manifold allows air to exhaust quickly, depressurising the blast machine.

#### Act Fast

Designed for precision control and minimal air flow loss, the Elcometer RCV4000 & RCV4000+ Remote Control Valves allows you to safely control a blast machine at the nozzle - fast.

#### Maintain in Minutes

To prolong the life of your blast machine, maintenance is required. To minimise your service time, the remote control valve, exhaust, silencer and moisture separator can be quickly swapped out in one assembly by undoing just two union joints. So whilst the assembly is being serviced, you can carry on blasting.

**Elcometer RCV4000** Remote Control Valve

#### Elcometer RCV4000 Remote Control Valves are used to safely pressurise and depressurise abrasive blast machines at the blast nozzle using a deadman's handle.

Quickly cuts off the flow of compressed air to the blast hose Easy and fast to service, the whole RCV system can be removed by undoing two unions joints Available with 38mm (11/2"),  $32mm (1\frac{1}{4}") \text{ or } 19mm (\frac{3}{4}")$ versions RCV4000+ includes air manifold for ancillary equipment Designed and built in Great Britain out of high grade, non-corrosive aluminium

The Elcometer RCV4000+ is made up of 3 component parts:



Control Valve



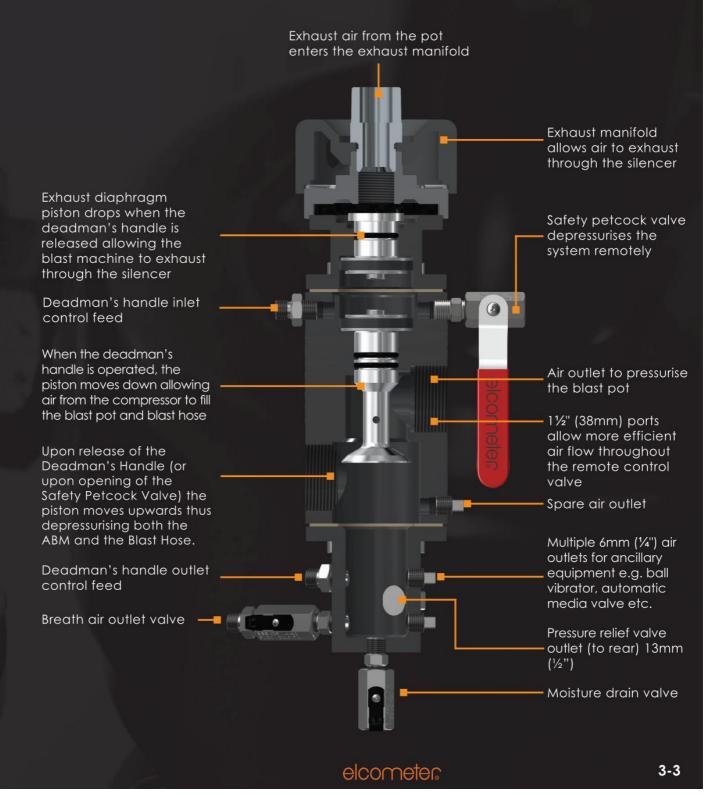
2 Exhaust Valve



3 Air Manifold

Thanks to Elcometer's state-of-the-art range of RCV4000 Pneumatic Remote Control Valves, our blast machines can be safely controlled at the nozzle, delivering precision control with maximum efficiency.

Remote Control
Valve



With a universal fit to all blast machines with remote control valve ports, the Elcometer RCV4000 Remote Control Valve offers high performance, reliability and is easy to service out in the field.



#### Safe Control

Used with a deadman's handle, the Elcometer RCV4000 with immediate start/stop, allows you to safely control the blast stream at the nozzle.



#### **Performs Under Pressure**

The state-of-the-art Elcometer RCV4000 Remote Control Valve's 1½" (38mm) diameter design reduces pressure loss by maximising the air flow efficiency through the valve.



#### Fast

The built-in heavy duty exhaust valve with reinforced elbow ensures fast and safe shut down. The durable Elcometer Exhaust Silencer traps small abrasive particles present in the air as it exits the abrasive blast machine during depressurisation.



#### Easy to Service

When you are not blasting, you are not earning, that's why the Elcometer RCV4000 Remote Control Valve is extremely easy to service and the whole system can be swapped out by undoing just two union joints. So whilst the assembly is being serviced, you can carry on blasting.



#### Universal

The Elcometer RCV 4000 doesn't just work with Elcometer's blast machines, its universal fit ensures it can be easily attached to other shot blast machines using remote control valves.

#### **Elcometer RCV4000+ Remote Control Valve**

#### Elcometer RCV4000+

The RCV4000+ Remote Control Valve incorporates two valves in one unit, the lower unit controls the compressed air inlet and the upper unit controls the exhaust outlet as air exits the abrasive blast machine.

A constant flow of compressed air is supplied to the unit at the lower 38mm (1½") port 'air inlet'. The air is then released through the 38mm (1½") 'air outlet' to the blast machine and blast hose. This is controlled via a pneumatic deadman's handle which is connected to the 6mm ( $\frac{1}{4}$ ") inlet and outlet on the side of the valve. The deadman's handle is connected to the unit via two airline hoses (known as twinline).

Closing the deadman's handle lever activates the two valves simultaneously. Releasing the deadman's handle deactivates the RCV4000+ immediately. The abrasive blast machine can also be depressurised by opening the red safety petcock on the RCV4000 valve body. This acts like an emergency stop for the system.

The Elcometer RCV4000+ comes with an integrated air manifold with multiple air outlets, allowing you to attach ancillary equipment, such as pressure gauges to monitor your compressed air pressure, ball vibration units to fluidise the media flow and air supply for your breathe air filter and pressure relief valve.

Available in 3 versions  $\frac{3}{4}$ " (19mm) for use with the Elcometer 1020 Blast Machine,  $1\frac{1}{2}$ " (38mm) for use with larger Elcometer blast machines and the  $\frac{1}{4}$ " (32mm) for use with other blast machines.



Elcometer RCV4000+ with Air Manifold

Part Numbers	
Part Number	Description
RCV4000P-75B	3/4" (19mm) RCV4000+ Remote Control Valve for use with Elcometer 1020 Blast Machines
RCV4000P-150B	1½" (38mm) RCV4000+ Remote Control Valve for all other Elcometer Blast Machines
RCV4000P-125B	1¼" (32mm) RCV4000+ Remote Control Valve

#### **Elcometer RCV4000 Remote Control Valve**

#### Elcometer RCV4000

The fail-safe Elcometer RCV4000 Remote Control Valve with base plate and moisture relief valve allows you to pressurise and depressurise a blast machine safely and quickly.

It is universal and will fit to all blast machines with a remote control valve port, meaning that you can benefit from the high cfm performance and fast response without having to replace the entire blast machine. The RCV4000 is available with  $32 \text{mm} (1\frac{1}{4}\text{"})$  ports.



Part Numbers		
Part Number	Description	
RCV4000-125B	11/4" (32mm) RCV4000 Remote Control Valve	

#### **Elcometer RCV4000**

#### **Elcometer RCV4000 Exhaust Manifold**



The high performance Elcometer RCV4000 Exhaust Manifold quickly and safely allows the blast machine to depressurise, letting the compressed air exhaust through the exhaust silencer. Connected to the remote control valve with four bolts, its unique design allows you to orientate the exhaust silencer.

Part Numbers	
Part Number	Description
MT28591	Elcometer RCV4000 Exhaust Manifold Assembly

Spare Parts		
Part Number	Description	
MT28590	Elcometer RCV4000 Exhaust Valve	

#### **Elcometer RCV4000**

#### **Elcometer RCV4000 Air Manifold**



The unique design of the Elcometer RCV4000 Air Manifold provides users with more air supply ports to power ancillary equipment such as air filters etc. and allows you to attach air feed pressure gauges and pressure relief valves. It also prevents moisture build up in the pistons on the RCV.

- 4 x 6mm (½") air outlets
- 1 x 13mm (½") pressure relief valve outlet (see page 4-2 for our certified pressure relief valves)

Part Numbers	
Part Number	Description
MT28604	Elcometer RCV4000 Air Manifold Assembly

#### Elcometer RCV4000

#### Elcometer RCV4000 Base Plate



Designed for use with the Elcometer RCV4000 Remote Control Valve, the base plate attaches to the bottom of the remote control valve, in place of the air manifold.

Part Numbers		
Part Number	Description	
MT30084	Elcometer RCV4000 Base Plate	

#### Elcometer RCV4000 Exhaust Silencer

#### Elcometer RCV4000

The Elcometer RCV4000 Exhaust Silencer reduces the noise level of compressed air as it exhausts from the blast machine.





Part Numbers		
Part Number	Description	
MT28597	Elcometer RCV4000 Exhaust Silencer complete with Metal Silencer Cartridge	

Spare Parts	
Part Number	Description
MT28598	Replacement Exhaust Silencer Cartridge - Plastic
MT30028	Replacement Exhaust Silencer Cartridge - Metal
MT28599	3/4" (19mm) Reinforced Union Elbow

#### **Elcometer RCV4000 Exhaust T**

#### Elcometer RCV4000

Elcometer's Exhaust Ts are fitted with a sacrificial wearplate plug that can be replaced in seconds so you do not have to replace the entire Exhaust T.



Part Numbers	
Part Number	Description
MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)
MT29681	Replacement Exhaust Plug

#### **B-Type Pneumatic Remote Control Handle**



The B-Type Pneumatic Remote Control Handle, also referred to as a 'deadman's handle' is connected to the remote control valve using a twinline remote control hose and fastened to the blast nozzle allowing you to safely activate/deactivate the blast machine remotely.

Strong and reliable, the fail-safe Elcometer B-Type Remote Control Handle has a built-in safety switch to avoid accidental switch on. With an easy to change, long-life rubber button to complete the seal, this control handle is an essential element for safe abrasive blasting.

Part Numbers	
Part Number	Description
RCHB-B	B-Type Pneumatic Remote Control Handle - Black

Spare Parts		_
Part Number	Description	
MT28514-5	Rubber "Stop" Buttons for B-Type Remote Control Handle (x5)	
MT28514-25	Rubber "Stop" Buttons for B-Type Remote Control Handle (x25)	

#### C-Type Pneumatic Remote Control Handle



Used with a twinline remote control hose attached to a remote control valve, the Elcometer C-Type Remote Control Handle is a flip over deadman's handle preventing accidental switch on.

Part Numbers	
Part Number	Description
RCHC-B	C-Type Pneumatic Remote Control Handle - Chrome

Spare Parts		
Part Number	Description	
MT28515-5	Rubber "Stop" Buttons for C-Type Remote Control Handle (x5)	
MT28515-25	Rubber "Stop" Buttons for C-Type Remote Control Handle (x25)	

#### **Twinline Pneumatic Remote Control Hose**

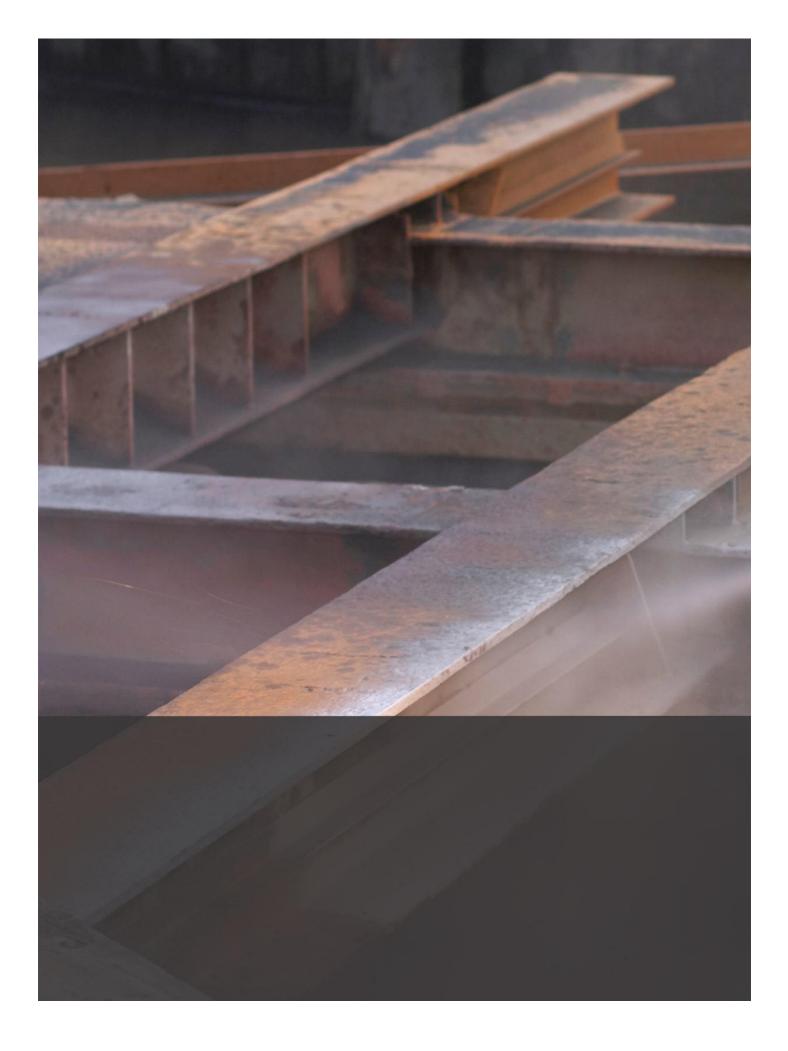
Elcometer's tough  $\frac{1}{4}$ " (6mm) ID Twinline Remote Control Hose prevents tangles and trip hazards that are easily created when using two single lines with the blast hose. Durable, reliable and lightweight the Elcometer Twinline Remote Control Hose is constructed using spiral polyester with reinforced rubber. It is available with  $\frac{1}{4}$ " (6mm) female swivel couplings to fit directly to your deadman's handle and remote control valve outlet.



Technical Specification	
Internal Diameter ID	6mm (¼")
Outside Diameter OD	13mm (½")
Construction	Linging Back NR+SBTR+EPDM Rubber
Reinforcement	Spiral Polyester Yarn
Working Pressure	20bar (290psi)
Burst Pressure	60bar (870psi)
Operating Temperature	-35°C to +80°C (-31°F to 176°F)

Part Numbers			
Description Elcometer Twinline Remote Control Hose (Yellow & Green) - Coupled			
Length	5 metres (16.4ft)	10 metres (32.8ft)	20 metres (65.6ft)
Part Number	TWINLINE-5B	TWINLINE-10B	TWINLINE-20B

Spare Parts		
Part Number	Description	
TWINLINE	Twinline Remote Control Hose, bare - 131ft (40m)	
MT28600	Male/ Female Connectors complete with Hose Clamps for use with Twinline Remote Control Hose, (2 pairs)	
HOSETAPE-1	Black Hose Tape to attach Twinline Remote Control Hose to Blast Hose (1 Roll)	
HOSETAPE-3	Black Hose Tape to attach Twinline Remote Control Hose to Blast Hose (3 Rolls)	
MT30532	1/4" (6mm) to 1/4" (6mm) Hex Nipple BSP 60° Cone	
MT30534	1/4" (6mm) Hose Crimping Tool	





## ABRASIVE BLAST MACHINE ACCESSORIES

- Sieves & Lids
- Pressure Relief Valves
- Protection Skids
- Petcock Valve
- Pop Up Valves
- Access Doors
- Pot Coupling
- Moisture Separator
- Air Pressure Regulator
- Earthing Wire
- Magnetic Sweeper

#### **Blast Machine Sieve & Cover Lid**



Manufactured from durable ½" (6mm) high quality steel for years of use, Elcometer's blast machine lids & sieves are specially designed to sit outside the rim of the blast machine to prevent water ingress.

Available in a range of sizes to fit all Elcometer blast machines, they can be purchased individually, as a set or as part of the Elcometer blast kits (see section 1).



Hardwearing screen with a mesh size of 5mm square hole at 8mm pitch



Solid lid handle with sealed screws to prevent water ingress



Sieves and lids sit outside of the blast machine to avoid rain entering the blast machine

Part Numbers			
Part Number	Description		
SCREEN-10	10" (254mm) Screen Sieve	LID-10	10" (254mm) Blast Machine Cover Lid
SCREEN-14	14" (356mm) Screen Sieve	LID-14	14" (356mm) Blast Machine Cover Lid
SCREEN-20	20" (508mm) Screen Sieve	LID-20	20" (508mm) Blast Machine Cover Lid
SCREEN-24	24" (610mm) Screen Sieve	LID-24	24" (610mm) Blast Machine Cover Lid
SLKIT-10	10" (254mm) Screen Sieve & Blast Machine Cover Lid		
SLKIT-14	14" (356mm) Screen Sieve & Blast Machine Cover Lid		
SLKIT-20	20" (508mm) Screen Sieve & Blast Machine Cover Lid		
SLKIT-24	24" (610mm) Screen Sieve & Blast Machine Cover Lid		

#### **Certified Pressure Relief Valves**



Pressure relief valves must be incorporated into the blast machine system to meet global safety standards. Elcometer's certified pressure relief valves can be easily fitted to the air manifold which is fitted to the RCV4000+remote control valve. Pressure relief valves are designed to discharge the compressed air in the blast machine upon reaching the crack pressure.

Part Numbers		
Part Number	Description	
MT28606	12bar (174psi) Certified ½" (13mm) Pressure Relief Valve, BSP Thread	
MT28607	15bar (217psi) Certified 1/2" (13mm) Pressure Relief Valve, BSP Thread	

#### **Protection Skid**

Available as a user fitted accessory, the protection skid provides unparalleled protection of the valves and pipework of Elcometer abrasive blast machines.

Ideal for providing complete protection for your valves and pipework, especially when loading and unloading your machine.

Suitable for use with the Elcometer 1440, 1460 & 20100 abrasive blast machines.



Part Numbers	Part Numbers	
Part Number	Description	
MT30143-2	Protection Skid for Elcometer 1440	
MT30143-3	Protection Skid for Elcometer 1460	
MT30143-4	Protection Skid for Elcometer 20100	

#### Safety Petcock Valve

Designed with a large, easy to reach handle, the red Elcometer safety petcock valve fits to the Elcometer RCV4000 and RCV4000+ remote control valves. In an emergency it will isolate the deadman's handle circuit and depressurise the blast machine quickly.



Part Numbers	
Part Number	Description
MT29656	Elcometer Safety Petcock ¼" (6mm) HP Ball Valve

#### **Elcometer SOV Abrasive Media Shut Off Valve**

#### Elcometer SOV Abrasive Media Shut Off Valve

stops the flow of abrasive so you can service your media valve without wasting abrasive.

Easy to fit to all Elcometer abrasive blast machines\* using automatic or general media valves - simply screw into pot coupling



Shuts off the flow of abrasive at any time, even when the machine still contains abrasive, to allow you to service the media valve or replace the rubber liner



Easily serviced - simply take out the split pin and remove the valve







Part Number	s	
Part Number	Description	
SOV-B	Elcometer Manual Media Shut Off Valve and Flange Assembly	

Spare Parts		
Part Number	Description	
MT29553	Steel BSP Flange for Elcometer SOV	
MT29559	Service Kit for SOV, includes O-rings and Split Pin for the Manual Shut Off Valve	

\*not suitable for Elcometer 1020

#### Reinforced Internal Pop Up Valve

The Elcometer Internal Pop Up Valves ensure fast pressurisation of Elcometer blast machines. The automatic pressure sealing pop-up valves are fitted with reinforced metal guards, making them very hard-wearing.



Part Numbers	art Numbers	
Part Number	Description	
MT28622	Elcometer Pop Up Valve with Internal Shaft for use with all Elcometer Blast Machines (x1)	
MT28627	Elcometer Pop Up Valve O-Ring (x1)	

Spare Parts	
Part Number	Description
MT28631-1	1" (25mm) Pop Up Shaft for Elcometer 1020
MT28631-2	1" (25mm) Pop Up Shaft for Elcometer 1440
MT28631-3	1" (25mm) Pop Up Shaft for Elcometer 1460
MT28631-4	1" (25mm) Pop Up Shaft for Elcometer 20100
MT28631-5	1" (25mm) Pop Up Shaft for Elcometer 24200
MT28631-6	1" (25mm) Pop Up Shaft for Elcometer 24285



#### Air Supply Ball Valve

Elcometer's Air Supply Ball Valve can be fitted between the air hose and the moisture separator to isolate the compressor - making it safe to undertake maintenance work.



Part Numbers	Part Numbers		
Part Number	Description		
MT29177	Elcometer 1½" (38mm) Male-Female Ball Valve		

#### **Access Door & Assembly**

Elcometer's abrasive blast machines make inspection and servicing easy, thanks to the large access doorway which is wide enough for both of your arms.

Each door comes with an ElcoFit™ wrap-around sealing gasket so you don't have to worry about gasket alignment when closing up.









- Quickly replace the yoke and nut if threaded, the parts can be easily sourced.
- Large doorway access fits both arms ideal for servicing.
- ElcoFit™ wrap-around sealing
   gasket makes door alignment easy and fast.

Part Numbers	
Part Number	Description
MT29693	Elcometer Inspection Hatch Door for Elcometer 1020
MT28616	Elcometer Inspection Hatch Door for all Elcometer Blast Machines (excluding the Elcometer 1020)
MT28613	ElcoFit™ Door Sealing Gasket
MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm (41/3")
MT28615	Inspection Hatch Door Yoke
MT29696	M16 Hexagon Flanged Nut

#### **Pot Coupling**

Manufactured from metal, Elcometer abrasive blast machine pot couplings are heavy duty and durable. Available in a range of sizes, they allow an easy connection of the blast hose to the abrasive metering valve.



Part Numbers			
Part Number	Description	Part Number	Description
MT30090	Elcometer ABM 1/2" (13mm) BSP Pot Coupling	MT30002	Elcometer ABM 11/2" (38mm) BSP Pot Coupling
MT30010	Elcometer ABM 11/4" (32mm) BSP Pot Coupling	MT28890	Replacement Quick Coupling Safety Clip (3 pairs)

#### **Moisture Separator**

The highly efficient Elcometer Moisture Separator prevents moisture and oil from the compressor entering the blast machine. Eliminating up to 98% of the moisture and oil from compressed air, the moisture separator stops the abrasive becoming damp and clogging the blast machine.

As the Elcometer Moisture Separator is rated to a working pressure of 15bar (217psi), it does not have a glass viewing area, this ensures it will not break under pressure.



Part Numbers		
Part Number	Description	
MT28617	Elcometer 11/2" (38mm) Moisture Separator Assembly for Elcometer Abrasive Blast Machines	

#### Fine Media Ball Vibration Kit

To use lightweight, non-aggresive blast media (such as baking soda, corn cob or stone powder, simply fit a Fine Media Ball Vibration Kit, to the built-in vibration plate on your Elcometer Abrasive Blast Machine.



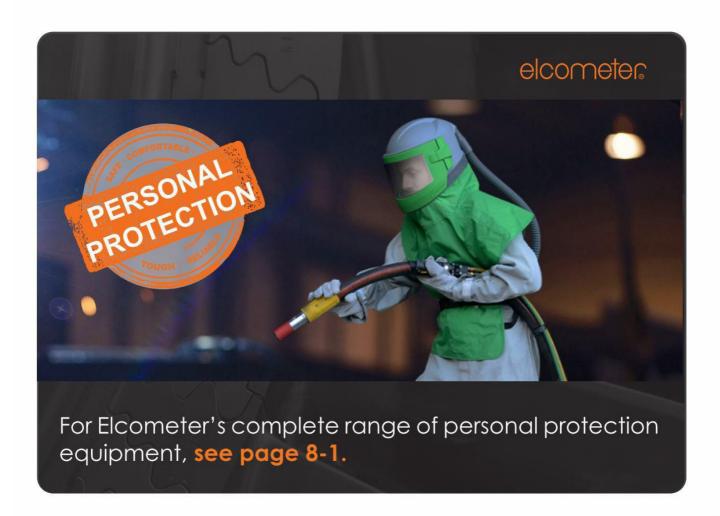
Part Numbers	umbers	
Part Number	Description	
MT29524	1/2" (13mm) Fine Media Pneumatic Ball Vibration Kit	
MT29961	11/2" (38mm) Fine Media Pneumatic Ball Vibration Kit	

#### **Earthing Wire Assembly**



Whilst the front leg plates of all Elcometer's abrasive blast machines have an uncoated base to dissipate static build up, the Elcometer Earthing Wire assembly quickly attaches to the rear of the machine to prevent static electricity build up at the back of the pot.

Part Numbers	s .	_
Part Number	Description	
MT30128	Earthing Wire Assembly	



#### **Elcometer Magnetic Sweeper**

The Elcometer Magnetic Sweeper will collect steel shot and other magnetic items including: nails, screws, nuts, bolts, pop-rivet studs, wire off-cuts, punchings and any other ferrous waste materials.

Ideal for either internal or external use, clearing workshops or yards, in any weather, even standing water

Built around a substantial aluminium casting, the powerful permanent anisotropic magnets collect waste at a brisk walking pace

Adjustable height, large front wheels and a rear castor allows the unit to be extremely manoeuvrable and able to cope with bulky waste and uneven surfaces

A handle-operated release mechanism drops the waste into a neat pile which can then be swept up, using the integrated collection tray and brush



Available in two widths

Part Numbers					
Part Number	Description	Magnet Width	Overall Width	Magnetic Area	Weight
E600-1	Magnetic Sweeper	600mm (24")	740mm (29")	1200cm <sup>2</sup> (186in <sup>2</sup> )	36kg (79lbs)
E900-1	Magnetic Sweeper	900mm (35")	1040mm (41")	1800cm <sup>2</sup> (279in <sup>2</sup> )	46kg (101lbs)





# BLAST HOSE, NOZZLE HOLDERS & COUPLINGS



# **Blast Hose**

Available in 12 and 15bar (174 and 217psi) variants; Elcometer Blast Hose is ideal for your blasting needs. Manufactured using high quality rubber, you can guarantee a safe and secure operation.



# **Nozzle Holders**

Designed to be lightweight, robust and secure; the Elcometer Nozzle Holders tightly fit on to the blast hose using internal grip rings and screws.



# Couplings & Whip Checks

Elcometer have an extensive range of quick couplings and whip checks.

Elcometer's comprehensive range of Blast Hose, Nozzle Holders & Couplings are designed to be incredibly hard wearing, tough and safe.



# Blast Hose

Wear-resistant and anti-static, Elcometer blast hose is tough yet flexible and suitable for all common abrasive blast media.



# Blast & Whip Hose Assemblies

Elcometer's blast hose assemblies include remote control twinline hose (attached with tape to prevent catching and allow easy replacement), DMHII deadman's handle, nozzle holder and quick coupling, everything you need to get blasting.



# Blast Hose Extension Assemblies

Elcometer blast hose extension assemblies are supplied with remote control twinline hose and quick couplings at each end, to quickly extend your blast hose.



# Nozzle Holders

Designed to securely fit on to the blast hose Elcometer's nylon & aluminium blast nozzle holders are designed to firmly hold the blast nozzle in place.



# Quick Couplings

Available in cast iron and nylon Elcometer blast hose quick couplings securely attach to the end of the blast hose creating a solid connection and a consistent flow, complete with locking pins.

Flexible, anti-static, lightweight and tough, Elcometer's range of 2 ply blast hose is available with a working pressure of either 12 or 15bar (174 or 217psi) with a 3 times safety margin\*.

# 1 Tough Outer Cover

Manufactured using abrasion resistant and anti-static natural & styrene-butadiene rubber with a cloth impression, the tough weather resistant cover prolongs the life of the hose.

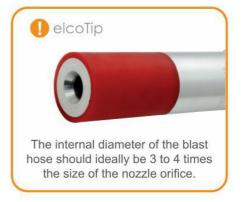
# 2 2 Ply Braid Reinforcement

Elcometer's blast hose features highly woven cord linings in a 2 ply cross pattern to improve hose strength and allow flexibility.

# 3 Anti-Static & Abrasion Resistant Inner Wall

The Elcometer blast hose is manufactured out of natural and styrene-butadiene rubber compound with carbon black, has an abrasion resistance value of  $50 \text{mm}^3$  in accordance with DIN53516 and has an anti-static rating (R) of R<106  $\Omega/\text{m}$ . This dissipates static electricity to the ground to protect the blaster from injuries caused by a static shock.





# What is a Whip Hose?

Operators may find that using a standard blast hose is too heavy to work with all day and difficult to move. To combat this, a short length of smaller internal diameter, more flexible blast hose can be fitted in between the nozzle and the standard blast hose – this is called a 'whip hose'. Consult the table below to choose the size of your whip hose in relation to the size of your main blast hose – in most circumstances this is one size down from your hose diameter.

# Whip Hose Selection Guide for blasting at 100psi (6.89bar) nozzle pressure using garnet abrasive

Nozzle Si	ze	Extension Hose ID	Whip Hose ID
4	1⁄4" (6mm)	1" (25mm)	¾" (19mm)
5	5/16" (8mm)	11/4" (32mm)	1" (25mm)
6	3/8" (9.5mm)	1½" (38mm)	1¼" (32mm)
7	½16" (11mm)	1½" (38mm)	1¼" (32mm)
8	½" (13mm)	2" (51mm)	1½" (38mm)

<sup>\*</sup>Burst pressure safety margin = 3 x the working pressure

#### **Elcometer Blast Hose**



Elcometer Blast Hose is available in anti-static 40m (131ft) lengths & a number of hose diameters, in either 12bar (174psi) or 15bar (217psi) so you can prepare your blast hose to suit your application.

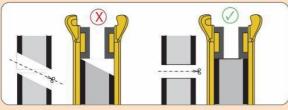
12bar (	174psi) Bl	ast Hose					
Part Number	Hose Length	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	Max. Working Pressure	Max. Burst Pressure	Operating Temperature
BH13	40m (131ft)	13mm (½")	28mm (11/8")	105mm (4 <sup>9</sup> / <sub>64</sub> ")	12bar (174psi)	36bar (522psi)	-30 to +85°C (-22 to +185°F)
BH19	40m (131ft)	19mm (¾")	34mm (13/8")	155mm (6 <sup>7</sup> / <sub>64</sub> ")	12bar (174psi)	36bar (522psi)	-30 to +85°C (-22 to +185°F)
BH25	40m (131ft)	25mm (1")	38mm (1½")	200mm (7 <sup>7</sup> / <sub>8</sub> ")	12bar (174psi)	36bar (522psi)	-30 to +85°C (-22 to +185°F)
BH32	40m (131ft)	32mm (11/4")	48mm (11/8")	260mm (10 <sup>15</sup> / <sub>64</sub> ")	12bar (174psi)	36bar (522psi)	-30 to +85°C (-22 to +185°F)
BH38	40m (131ft)	38mm (1½")	56mm (23/16")	305mm (12 <sup>1</sup> / <sub>64</sub> ")	12bar (174psi)	36bar (522psi)	-30 to +85°C (-22 to +185°F)

15bar	(217psi) Hi	gh Pressur	e Blast Hose	•			
внз2х	40m (131ft)	32mm (11/4")	48mm (11//8")	256mm (10 <sup>5</sup> / <sub>64</sub> ")	15bar (217psi)	45bar (653psi)	-30 to +85°C (-22 to +185°F)
внз8х	40m (131ft)	38mm (1½")	56mm (23/16")	304mm (11 <sup>31</sup> / <sub>32</sub> ")	15bar (217psi)	45bar (653psi)	-30 to +85°C (-22 to +185°F)

# Attaching the quick coupling to your blast hose

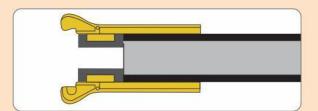
#### Step 1

Using a blast hose cutter (see page 5-7), cut the end of your hose. Ensure that the end of the hose is perfectly square so it can seal against the flange face without creating any gaps, as this will cause premature failure. Drill four holes into the indents on the coupling.



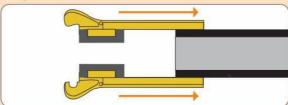
#### Step 3

Wipe away any excess sealant from the inside of the hose and check there are no gaps between the hose and the coupling.



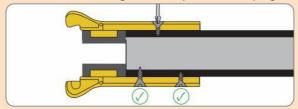
# Step 2

Apply a layer of sealant compound around the inside of the coupling. This helps create an air-tight seal extending the life of the coupling and will act as a lubricant to assist installation. Twist the coupling clockwise on to the hose until the hose end is firmly seated against the coupling flange face.



#### Step 4

Fix the screws provided and tighten them securely. Screws will initially "push" the blast hose off the coupling wall. It is important that the screws continue to be tightened until the hose is securely attached to the coupling wall. Always re-cut the hose end when fitting a new or replacement coupling.



# Elcometer Blast Hose Assemblies with Nozzle Holder & Quick Coupling



Elcometer Blast Hose Assemblies contain twinline remote control hose, DMHII deadman's handle, nozzle holder and quick coupling. Blast hose assemblies are available in either 12bar (174psi) or 15bar (217psi) working pressure.

# 1/2" (13mm) ID 12bar (174psi) Blast Hose Assembly





Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH13NFSB-5	5m (16.4ft)	Nylon	¾" Fine	Cast Iron
BH13NFSB-10	10m (32.8ft)	Nylon	¾" Fine	Cast Iron

# 3/4" (19mm) ID 12bar (174psi) Blast Hose Assembly

Technical Specification				
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	
12bar (174psi)	19mm (¾")	34mm (13/8")	155mm (6 <sup>7</sup> / <sub>64</sub> ")	



Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH19NCNB-5	5m (16.4ft)	Nylon	2" Contractor	Nylon
BH19NCNB-10	10m (32.8ft)	Nylon	2" Contractor	Nylon

The Elcometer 102 Needle Pressure Gauge is designed to measure air pressure up to 300psi (20bar) in blast and air hoses, see page 9-2



#### Contractor Thread versus Fine Thread



#### **Contractor Thread**

Industry standard thread at  $4\frac{1}{2}$  threads per inch (TPI) (114mm), this style greatly reduces the chance of cross threading and is much easier to install.



# **Fine Thread**

Fine thread is designed to work with smaller diameter hose and couplings.

# Blast Hose, Nozzle Holders & Couplings



# 1" (25mm) ID 12bar (174psi) Blast Hose Assembly

Technical Specification			
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
12bar (174psi)	25mm (1")	38mm (1½")	200mm (7 <sup>7</sup> / <sub>8</sub> ")

Part NumberHose LengthNozzle HolderThread TypeQuick CoBH25NCNB-55m (16.4ft)Nylon2" ContractorNylonBH25NCNB-1010m (32.8ft)Nylon2" ContractorNylon	
	oupling
BH25NCNB-10 10m (32.8ft) Nylon 2" Contractor Nylon	
BH25ACSB-5 5m (16.4ft) Aluminium 2" Contractor Cast Iron	1
BH25ACSB-10 10m (32.8ft) Aluminium 2" Contractor Cast Iron	1
BH25NCSB-5 5m (16.4ft) Nylon 2" Contractor Cast Iron	1
BH25NCSB-10 10m (32.8ft) Nylon 2" Contractor Cast Iron	1
BH25ACNB-5 5m (16.4ft) Aluminium 2" Contractor Nylon	
BH25ACNB-10 10m (32.8ft) Aluminium 2" Contractor Nylon	



# 11/4" (32mm) ID 12bar (174psi) Blast Hose Assembly

Technical Specification			
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
12bar (174psi)	32mm (11/4")	48mm (11/8")	260mm (10 <sup>15</sup> / <sub>64</sub> ")

Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH32NCNB-5	5m (16.4ft)	Nylon	2" Contractor	Nylon
BH32NCNB-10	10m (32.8ft)	Nylon	2" Contractor	Nylon
BH32ACSB-5	5m (16.4ft)	Aluminium	2" Contractor	Cast Iron
BH32ACSB-10	10m (32.8ft)	Aluminium	2" Contractor	Cast Iron
BH32NCSB-5	5m (16.4ft)	Nylon	2" Contractor	Cast Iron
BH32NCSB-10	10m (32.8ft)	Nylon	2" Contractor	Cast Iron
BH32ACNB-5	5m (16.4ft)	Aluminium	2" Contractor	Nylon
BH32ACNB-10	10m (32.8ft)	Aluminium	2" Contractor	Nylon



# 1¼" (32mm) ID 15bar (217psi) High Pressure Blast Hose Assembly

Technical Specifica	tion		
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
15bar (217psi)	32mm (11/4")	48mm (11/8")	256mm (10 <sup>5</sup> / <sub>64</sub> ")

Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH32XNCSB-5	5m (16.4ft)	Nylon	2" Contractor	Cast Iron
BH32XNCSB-10	10m (32.8ft)	Nylon	2" Contractor	Cast Iron
BH32XACSB-5	5m (16.4ft)	Aluminium	2" Contractor	Cast Iron
BH32XACSB-10	10m (32.8ft)	Aluminium	2" Contractor	Cast Iron

# 11/2" (38mm) ID 12bar (174psi) Blast Hose Assembly

Technical Specification				
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	
12bar (174psi)	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")	305mm (12 <sup>1</sup> / <sub>64</sub> ")	



Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH38NCNB-10	10m (32.8ft)	Nylon	2" Contractor	Nylon
BH38NCNB-20	20m (65.6ft)	Nylon	2" Contractor	Nylon
BH38ACSB-10	10m (32.8ft)	Aluminium	2" Contractor	Cast Iron
BH38ACSB-20	20m (65.6ft)	Aluminium	2" Contractor	Cast Iron
BH38NCSB-10	10m (32.8ft)	Nylon	2" Contractor	Cast Iron
BH38NCSB-20	20m (65.6ft)	Nylon	2" Contractor	Cast Iron
BH38ACNB-10	10m (32.8ft)	Aluminium	2" Contractor	Nylon
BH38ACNB-20	20m (65.6ft)	Aluminium	2" Contractor	Nylon

# 1½" (38mm) ID 15bar (217psi) High Pressure Blast Hose Assembly

Technical Specification			
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
15bar (217psi)	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")	304mm (11 <sup>31</sup> / <sub>32</sub> ")



Part Numbers				
Part Number	Hose Length	Nozzle Holder	Thread Type	Quick Coupling
BH38XACSB-10	10m (32.8ft)	Aluminium	2" Contractor	Cast Iron
BH38XACSB-20	20m (65.6ft)	Aluminium	2" Contractor	Cast Iron
BH38XNCSB-10	10m (32.8ft)	Nylon	2" Contractor	Cast Iron
BH38XNCSB-20	20m (65.6ft)	Nylon	2" Contractor	Cast Iron

# **Elcometer Blast Hose Cutter**

The Elcometer Blast Hose Cutter cuts rubber hose up to 63mm (21/2") OD cleanly and squarely.

Part Numbers		
Part Number	Description	
MT29211	Blast Hose Cutter	



# **Understanding Blast Hose Assembly Part Numbers**



Product

BH = Blast Hose

32

ID

Internal diameter of the hose (mm).

X

Pressure

**X** = 15bar = 12bar

NG

Nozzle Holder

Material & thread type of the nozzle holder:

NC = Nylon/Contractor NF = Nylon/Fine

AC = Aluminium/

NB

**Quick Coupling** 

Material of the quick coupling:

NB = Nylon SB = Cast Iron



Length

Length of hose (m).

# **Elcometer Blast Hose Extensions**



Elcometer Blast Hose Extensions are ideal when your blast hose is unable to reach the desired location.

Our blast hose extensions are supplied with twinline remote control hose and 2 quick couplings, with locking pins and gaskets.



# 1/2" (13mm) ID Blast Hose Extension - 12bar (174psi)

Technical Specification				
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	
12bar (174psi)	13mm (½")	28mm (11/8")	105mm (49/64")	

Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH13SB-10	10m (32.8ft)	Cast Iron	
BH13SB-20	20m (65.6ft)	Cast Iron	



# 3/4" (19mm) ID Blast Hose Extension - 12bar (174psi)

Technical Specification				
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	
12bar (174psi)	19mm (¾")	34mm (1 3/8")	155mm (6 <sup>7</sup> / <sub>64</sub> ")	

Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH19NB-10	10m (32.8ft)	Nylon	
BH19NB-20	20m (65.6ft)	Nylon	



# 1" (25mm) ID Blast Hose Extension - 12bar (174psi)

Technical Specification				
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius	
12bar (174psi)	25mm (1")	38mm (1½")	200mm (7 <sup>7</sup> / <sub>8</sub> ")	

Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH25NB-10	10m (32.8ft)	Nylon	
BH25NB-20	20m (65.6ft)	Nylon	
BH25SB-10	10m (32.8ft)	Cast Iron	
BH25SB-20	20m (65.6ft)	Cast Iron	

# 11/4" (32mm) ID Blast Hose Extension - 12bar (174psi)

# Technical Specification

Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
12bar (174psi)	32mm (11/4")	48mm (11%")	260mm (10 <sup>15</sup> / <sub>64</sub> ")



Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH32NB-10	10m (32.8ft)	Nylon	
BH32NB-20	20m (65.6ft)	Nylon	
BH32SB-10	10m (32.8ft)	Cast Iron	
BH32SB-20	20m (65.6ft)	Cast Iron	

# 11/4" (32mm) ID High Pressure Blast Hose Extension - 15bar (217psi)

# Technical Specification

Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
15bar (217psi)	32mm (11/4")	48mm (11%")	256mm (105/64")



Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH32XSB-10	10m (32.8ft)	Cast Iron	
BH32XSB-20	20m (65.6ft)	Cast Iron	

# 11/2" (38mm) ID Blast Hose Extension - 12bar (174psi)

# Technical Specification

Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius
12bar (174psi)	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")	305mm (12 <sup>1</sup> / <sub>64</sub> ")



Part Numbers			
Part Number	Hose Length	Quick Coupling	
BH38NB-10	10m (32.8ft)	Nylon	
BH38NB-20	20m (65.6ft)	Nylon	
BH38SB-10	10m (32.8ft)	Cast Iron	
BH38SB-20	20m (65.6ft)	Cast Iron	

# 11/2" (38mm) ID High Pressure Blast Hose Extension - 15bar (217psi)

# Technical Specification

l						
	Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Min. Bend Radius		
	15bar (217psi)	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")	304mm (11 <sup>31</sup> / <sub>32</sub> ")		



Part Numbers		
Part Number	Hose Length	Quick Coupling
BH38XSB-10	10m (32.8ft)	Cast Iron
BH38XSB-20	20m (65.6ft)	Cast Iron

The Elcometer 102 Needle Pressure Gauge is designed to measure air pressure up to 20bar (300psi) in blast and air hoses, see page 9-2



elcometer.com

#### **Elcometer Blast Nozzle Holders**



The Elcometer Blast Nozzle Holders are available in nylon and aluminium making them lightweight and durable.

The blast nozzle holders are designed to securely fit on to the blast hose.



#### **Aluminium Blast Nozzle Holders**

Elcometer aluminium blast nozzle holders are supplied with a rubber gasket & screws.

Part Numbers				
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Thread Type	Elcometer Blast Hose
ANH-25-C	25mm (1")	38mm (1½")	2" Contractor	BH25
ANH-32-C	32mm (11/4")	48mm (1½")	2" Contractor	BH32 & BH32X
ANH-38-C	38mm (1½")	55mm (23/16")	2" Contractor	BH38 & BH38X



# **Nylon Blast Nozzle Holders**

Nylon blast nozzle holders are supplied with screws only as Elcometer blast nozzles are supplied with blast nozzle sealing gaskets as standard. For spare gaskets, see page 5-11.

Part Numbe	ers			
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Thread Type	Elcometer Blast Hose
NNH-19-C	19mm (¾")	34mm (1%")	2" Contractor	BH19
NNH-25-C	25mm (1")	38mm (1½")	2" Contractor	BH25
NNH-32-C	32mm (11/4")	48mm (1½")	2" Contractor	BH32 & BH32X
NNH-38-C	38mm (1½")	55mm (23/16")	2" Contractor	BH38 & BH38X



# **Aluminium & Nylon Blast Nozzle Holders**

The nozzle holders in the table below are for use with the Elcometer 1020 Abrasive Blast Machine and the Tungsten Carbide Straight Bore Nozzle (see page 6-8).

Part Numbers				
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Thread Type	Elcometer Blast Hose
ANH-19-F	19mm (¾")	34mm (1%")	¾" Fine	BH19
NNH-13-F	13mm (½")	28mm (11/8")	¾" Fine	BH13

# **Rubber Blast Nozzle Sealing Gaskets**

All Elcometer blast nozzles are supplied with a blast nozzle sealing gasket which is suitable for use with nylon blast nozzle holders only. Elcometer aluminium blast nozzle holders are supplied with the correct sealing gasket for use with Elcometer blast nozzles. Please refer to the table below for compatibility of replacement gaskets.



Available in packs of 5 or 25 and a range of sizes, Elcometer sealing gaskets should be placed in between the nozzle and the nozzle holder and are designed to help reduce loss of pressure.

Part Numbers					
Part Number		Blast Nozzle		Compatible with BI	ast Nozzle Holder
Pack of 5	Pack of 25	<b>Entry Diameter</b>	Thread Type	Nylon	Aluminium
MT29212-13F-5	MT29212-13F-25	13mm (½")	Fine	•	•
MT29212-25CN-5	MT29212-25CN-25	25mm (1")	Contractor	•	
MT29212-2532CA-5	MT29212-2532CA-25	25mm (1")	Contractor		•
MT29212-32CN-5	MT29212-32CN-25	32mm (11/4")	Contractor	•	
MT29212-2532CA-5	MT29212-2532CA-25	32mm (11/4")	Contractor		•

# Screws

Replacement screws for blast hose couplings, to ensure a secure connection from coupling to hose.

<b>Part Numbers</b>	
Part Number	Description
MT28723	Coupling Screws (x10) - for BH13 Nozzle Holders and Quick Hose Couplings
MT28724	Coupling Screws (x10) - for BH19+ Nozzle Holders and Quick Hose Couplings



# **Understanding Nozzle Holder and Quick Coupling Part Numbers**









#### Material

Material of the product.

A = Aluminium

N = NylonS = Cast Iron Product

NH = Nozzle Holder QC = Quick Coupling Blast Hose ID

For blast hose internal diameter (mm).

Thread

C = Contractor F = Fine

# **Elcometer Blast Hose Quick Couplings**



Designed for increased safety and a prolonged lifespan, the Elcometer Blast Hose Quick Couplings attach securely to the end of the blast hose creating a solid connection and a consistent flow.

For blast pot couplings, see page 4-7
For compressed air bull hose couplings, see page 7-9



# **Cast Iron Quick Hose Coupling**

Elcometer cast iron quick hose couplings are supplied with safety clips, gasket and coupling screws and are ideal for use up to 15bar (217psi) working pressure.

Part Numbers			
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Elcometer Blast Hose
SQC-13	13mm (½")	28mm (11/8")	BH13
SQC-25	25mm (1")	38mm (1½")	BH25
SQC-32	32mm (11/4")	48mm (11/8")	BH32 & BH32X
SQC-32L	32mm (11/4")	48mm (11//8")	BH32 & BH32X
SQC-38	38mm (1½")	55mm (2 <sup>3</sup> / <sub>16</sub> ")	BH38 & BH38X



# Nylon¹ Quick Hose Coupling

Elcometer nylon quick hose couplings are supplied with springlock safety clips, gasket and coupling screws. Nylon hose couplings are not recommended for use above 12bar (174psi) working pressure.

Part Numbers			
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Elcometer Blast Hose
NQC-19 <sup>2</sup>	19mm (¾")	34mm (1¾")	BH19
NQC-25 <sup>2</sup>	25mm (1")	38mm (1½")	BH25
NQC-32 <sup>3</sup>	32mm (11/4")	48mm (1½")	BH32 & BH32X
NQC-38 <sup>3</sup>	38mm (1½")	56mm (2¾6")	BH38 & BH38X



Replacement Nylon Coupling Safety Clip



Replacement Cast Iron Coupling Safety Clip

Spare Parts	
Part Number	Description
MT28723	Coupling Screws (x10) - for BH13 Nozzle Holders and Quick Hose Couplings
MT28724	Coupling Screws (x10) - for BH19+ Nozzle Holder and Quick Hose Couplings
MT29495-2	Gasket (x5) - for SQC-25, SQC32, SQC32L & SQC-38 Quick Hose Coupling
MT29495-1	Gasket (x5) - for SQC-13 Quick Hose Coupling
MT29495-5	Gasket (x5) - for NQC-19 Quick Hose Coupling
MT29495-4	Gasket (x5) - for NQC-25 Quick Hose Coupling
MT29495-3	Gasket (x5) - for NQC-32 & NQC-38 Quick Hose Coupling
MT28890	Replacement Cast Iron Coupling Safety Clip (3 pairs)
MT27880	Replacement Nylon Coupling Safety Clip (x10)

<sup>&</sup>lt;sup>1</sup> A nylon quick hose coupling is not available for 13mm ID hose and are not recommended for use above 12bar (174 psi) working pressure <sup>2</sup> Supplied with 4 x coupling screws, springlock & gasket

#### **Twinline Pneumatic Remote Control Hose**

Elcometer's tough  $\frac{1}{4}$ " (6mm) ID Twinline Remote Control Hose prevents tangles and trip hazards that are easily created when using two single lines with the blast hose. Durable, reliable and lightweight the Elcometer Twinline Remote Control Hose is constructed using spiral polyester with reinforced rubber. It is available with  $\frac{1}{4}$ " (6mm) female swivel couplings to fit directly to your deadman's handle and remote control valve outlet.

Technical Spe	ecification			=
Max. Working Pressure	Internal Diameter (ID)	Outside Diameter (OD)	Bend Radius	Operating Temperature
20bar (290psi)	6mm (1/4")	13mm (½")	260mm (101/4")	-35°C to +80°C -31°F to +176°F



Part Numbers			
Description	Elcometer Twinline Cont	rol Hose (Yellow & Green) - Coup	led
Length	5 metres (16.4ft)	10 metres (32.8ft)	20 metres (65.6ft)
Part Number	TWINLINE-5B	TWINLINE-10B	TWINLINE-20B

Spare Parts		
Part Number	Description	
TWINLINE	Twinline Remote Control Hose, bare - 131ft (40m)	
MT28600	Male/ Female Connectors complete with Hose Clamps for use with Twinline Remote Control Hose, (2 pairs)	
HOSETAPE-1	Black Hose Tape to attach Twinline Remote Control Hose to Blast Hose (1 Roll)	
HOSETAPE-3	Black Hose Tape to attach Twinline Remote Control Hose to Blast Hose (3 Rolls)	
MT30532	1/4" (6mm) to 1/4" (6mm) Hex Nipple BSP 60° Cone	
MT30534	1/4" (6mm) Hose Crimping Tool	

# Whip Check Safety Cable

Manufactured from high strength corrosion resistant steel and designed for containing the coupling connection in case of accidental separation; the Elcometer whip check safety cable creates extra protection for the operator in the event of a coupling failure.

If couplings fail or disconnect at high pressure, serious injury can occur as the high pressure can cause the hose to thrash around, out of control, endangering the life of the blaster & those nearby.



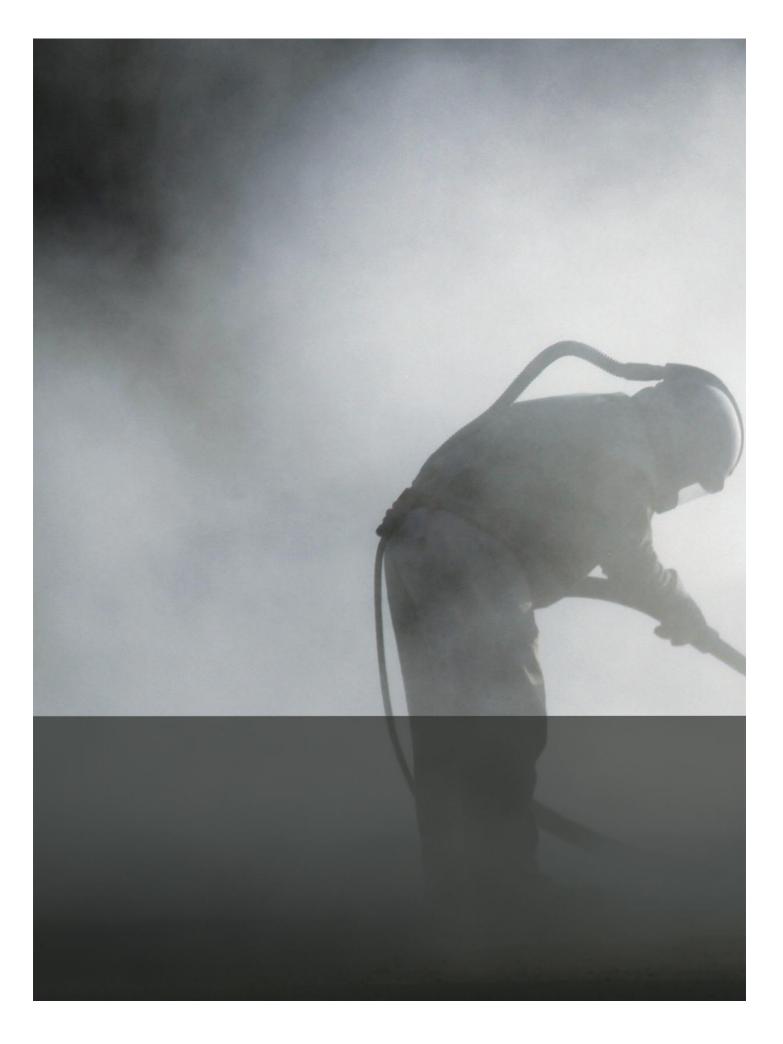


By using the Elcometer whip check safety cables, the situation is better controlled as the couplings movement becomes far more restricted, giving you opportunity to shut down the air supply quickly and safely.

To prevent accidents whip checks should be used at all connection points, such as:

- Between two hose couplings
- · Between hose & pot couplings
- Between hose & compressor couplings
- Between hose & air distribution manifold couplings

Part Numbers				
Part Number	For Blast Hose Internal Diameter (ID)	For Blast Hose Outside Diameter (OD)	Elcometer Blast Hose	
MT29157	13 - 32mm (½" - 1¼")	28 - 48mm (11/8" - 17/8")	BH13, BH19, BH25, BH32 & BH32X	
MT29156	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")	BH38 & BH38X	





Elcometer's range of high performance blast nozzles are both rugged and lightweight and are designed to minimise operator fatigue.



# SELECTING A BLAST NOZZLE - it's as easy as 1, 2, 3

# 1. Choose Your Nozzle Bore Size

For maximum productivity, select the nozzle bore size from the table below, based on the desired blast pressure, available air pressure and volume of air flow. Elcometer supply a wide range of nozzle orifice sizes from 3.2mm (1/6") to 19mm (3/4") internal diameter.

# **Nozzle Bore Size**

Using a larger nozzle orifice size produces a greater blast coverage area but requires a greater air capacity (cfm or m³/min) to 'power' the nozzle. A smaller nozzle size will typically produce a narrower blast pattern and consume less air. To maximise the potential benefits of using a larger nozzle diameter it is essential to 'supply' the nozzle with the correct air & media mix at sufficient speed and pressure. The choice of nozzle is therefore determined by the available air flow produced by the compressor. If a larger nozzle is chosen then to blast efficiently, a higher air capacity is required.

The table below shows the correlation between volume of air, nozzle size and nozzle pressure and is often used in the industry to select nozzle size. Its real benefit is to select the optimum nozzle size for the nozzle pressure required to carry out the job. If the user requires a nozzle pressure of 100psi (6.89bar) for optimum blasting and is using a ½" #8 nozzle diameter then they would need a 340cfm (9.63m³/min) rated compressor. If a 222cfm compressor was used then the resultant nozzle pressure using the same #8 nozzle would be reduced from 100psi to 60psi (4.14bar), meaning the blast efficiency would be reduced by 50%.

			Nozzle I	Pressure p	osi (bar)				N1- 6: 0
-	50	60	70	80	90	100	125	150	Nozzle Size &
	(3.45)	(4.14)	(4.83)	(5.52)	(6.21)	(6.89)	(8.62)	(10.34)	Orifice Diameter
	12	13	15	17	19	21	25	29	<b>#2</b>
	(0.34)	(0.37)	(0.42)	(0.48)	(0.54)	(0.59)	(0.71)	(0.82)	3.2mm - 1/8"
(	25	30	34	38	42	46	56	67	#3
	(0.71)	(0.85)	(0.96)	(1.10)	(1.19)	(1.30)	(1.59)	(1.90)	4.8mm - <sup>3</sup> / <sub>16</sub> "
(m³/min)	47	54	61	68	75	81	98	115	<b>#4</b>
	(1.33)	(1.53)	(1.73)	(1.93)	(2.12)	(2.30)	(2.77)	(3.26)	6.35mm - 1⁄4"
cfm (m	76	89	101	114	126	138	169	200	<b>#5</b>
	(2.15)	(2.52)	(2.86)	(3.22)	(3.56)	(3.90)	(4.78)	(5.66)	8mm ⁵⁄₁₅"
Air - cl	107	125	143	161	179	197	242	287	<b>#6</b>
	(3.02)	(3.54)	(4.04)	(4.55)	(5.06)	(5.57)	(6.85)	(8.12)	9.5mm - ¾"
of	149	171	193	215	237	259	314	369	<b>#7</b>
	(4.21)	(4.84)	(5.46)	(6.09)	(6.71)	(7.33)	(8.89)	(10.44)	11mm - ⅓6"
Volume	193	222	252	281	310	340	412	485	#8
	(5.46)	(6.28)	(7.13)	(7.95)	(8.77)	(9.63)	(11.66)	(13.73)	12.5mm - ½"
>	305	353	401	449	497	545	665	785	<b>#10</b>
	(8.63)	(9.99)	(11.35)	(12.71)	(14.07)	(15.43)	(18.83)	(22.22)	16mm - 5%"
	401	488	574	661	747	833	1050	1266	<b>#12</b>
	(11.35)	(13.81)	(16.25)	(18.71)	(21.15)	(23.58)	(29.73)	(35.84)	19mm - ¾"

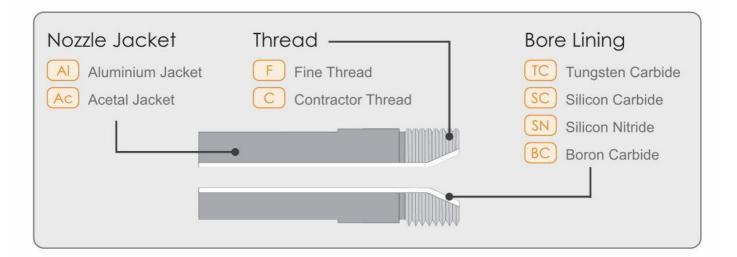
The figures in the table are approximate calculations based on a new/unused nozzle.

Elcometer recommend that air flow rates from the compressor of greater than 50CFM (1.4 m³/min) should be used with these blast machines.

# **SELECTING A BLAST NOZZLE**

# 2. Choose Your Thread, Jacket and Lining

Once you have determined the nozzle size, you now need to choose the material of the bore lining inside the nozzle and the material of the jacket protecting the bore. You also need to consider which style of thread best suits your needs; fine thread or contractor thread.



# Nozzle Jacket



# **Acetal Jacket**

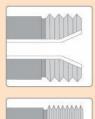
Elcometer's acetal jackets are lightweight whilst still providing impact protection.



# **Aluminium Jacket**

Elcometer's aluminium jackets offer a very high level of protection against impact damage.

# **Threads**



# Contractor Thread 51mm (2") Thread

The contractor thread has become the industry standard, at  $4\frac{1}{2}$  threads per inch (TPI), this style greatly reduces the chance of cross threading and is much easier to attach than a fine thread. Contractor threads are safer at high pressures and reduces chance of binding/galling.



Fine threads are typically used on smaller diameter hoses and are used with the Elcometer 1020 Abrasive Blast Machine.

# **Bore Lining**

# Tungsten Carbide

The least durable of the carbide nozzles, but relatively inexpensive & resistant to impact. Ideal for areas when rough handling can't be avoided and mineral, glass or coal slag abrasives are being used.

# Silicon Nitride BC Boron Carbide

Silicon Nitride has outstanding wear resistant properties and as it is up to 50% lighter than other nozzles of the same size, can significantly reduce operator fatigue.

Extremely hard wearing, durable and up to ten times the longevity of tungsten carbide. Ideal for aggressive abrasives.

Impact resistant and durable, like tungsten

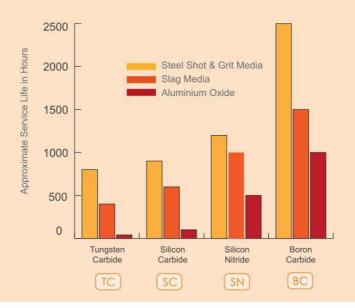
carbide, but approximately one-third of the

weight, causing less operator strain. Ideal for jobs

Silicon Carbide

that require long periods of blasting.

# Nozzle Service Life in Hours\*



# **Replacing Your Blast Nozzle**



A small increase in the nozzle size will result in a very large increase in air and abrasive consumption and adversely affect blasting efficiency. To ensure your nozzle provides continuous high production, as a general rule, replace your nozzle when the orifice wears by 1 nozzle size, when a #2 nozzle becomes the size of a #3 nozzle, for example.

The Elcometer 103 Blast Nozzle Gauge can accurately and easily measure your blast nozzle's orifice size. See page 9-2 for more information.

<sup>\*</sup>Estimated values for comparison. Actual service life will vary depending on blast pressure, media size and particle shape.

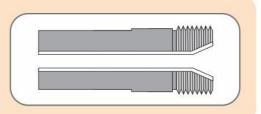
# **SELECTING A BLAST NOZZLE**

# 3. Choose Your Bore Shape

In order to achieve maximum blast performance it is important to choose the correct bore shape for your application. A nozzle's bore shape determines its blast pattern. Nozzles come in two basic shapes: straight bore and Venturi bore, with several variations of Venturi bore nozzles available.

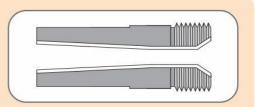
# SB Straight Bore Nozzles

Straight bore nozzles create a tight blast pattern for spot blasting or blast cabinet work. Ideal for smaller jobs such as parts cleaning, weld seam shaping, cleaning handrails, steps, grillwork or carving stone and other materials.



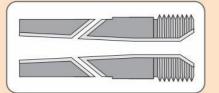
# **VB** Venturi Bore Nozzles

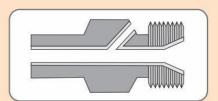
Featuring a converging entry and a diverging exit, Venturi nozzles create a wide blast pattern and increase abrasive velocity. Venturi nozzles are ideal for greater productivity when blasting larger surfaces.



# Other Nozzles

As well as the standard straight and Venturi nozzles, Elcometer also supply double Venturi nozzles, angled nozzles and nozzles with water jet systems, to suit your specific application.





# DV Double Venturi

Featuring a wide exit opening with holes at the diverging end to allow the insertion of atmospheric air into the downstream segment, increasing the size of the blast pattern and abrasive velocity.

# AN Angled Nozzles

Angled blast nozzles are ideal for when blasting is required inside pipes, behind ledges, flanges of beams, inside cavities or other hard-to-reach places.

# WJ Water Jet System

The water jet system mixes water with the abrasive inside a chamber within the jacket, reducing the amount of dust placed into the atmosphere. Ideal for harder abrasives when dust control is needed.

# **Tungsten Carbide Venturi Blast Nozzle with Aluminium Jacket**

Designed to create a wide blast pattern and increased velocity, the Tungsten Carbide Venturi Blast Nozzle with Aluminium Jacket is ideal for blasting large surfaces. Supplied with a rubber gasket, this general purpose blast nozzle features a tungsten carbide insert and aluminium jacket providing durability and toughness.









Technical Specification					
Part Number Contractor Thread	Nozzle No.	Orifice D	iameter	Length	Entry Diameter
MT28318-3C	#3	4.8mm	(3/16")	140mm (5.51")	32mm (1.26")
MT28318-4C	#4	6.35mm	(1/4")	140mm (5.51")	32mm (1.26")
MT28318-5C	#5	8mm	(5/16")	150mm (5.9")	32mm (1.26")
MT28318-6C	#6	9.5mm	(3/8")	175mm (6.89")	32mm (1.26")
MT28318-7C	#7	11mm	(7/16")	205mm (8.07")	32mm (1.26")
MT28318-8C	#8	12.5mm	(½")	235mm (9.25")	32mm (1.26")
MT28318-10C	#10	16mm	(5/8")	235mm (9.25")	32mm (1.26")
MT28318-12C	#12	19mm	(3/4")	235mm (9.25")	32mm (1.26")

# Tungsten Carbide Venturi Blast Nozzle with Acetal Jacket

Built to be impact resistant and long wearing, the Tungsten Carbide Venturi Blast Nozzle with Acetal Jacket is ideal for use with aggressive abrasives. Supplied with a rubber gasket, the nozzle's acetal jacket protects the tungsten carbide liner, prolonging it's lifespan whilst keeping the nozzle lightweight, causing less operator strain and increasing productivity.









Technical Specification	on			
Part Number Contractor Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter
MT28337-3C	#3	4.8mm (¾16")	140mm (5.51")	32mm (1.26")
MT28337-4C	#4	6.35mm (1/4")	140mm (5.51")	32mm (1.26")
MT28337-5C	#5	8mm (5/16")	150mm (5.9")	32mm (1.26")
MT28337-6C	#6	9.5mm (3/8")	175mm (6.89")	32mm (1.26")
MT28337-7C	#7	11mm (½16")	205mm (8.07")	32mm (1.26")
MT28337-8C	#8	12.5mm (½")	235mm (9.25")	32mm (1.26")
MT28337-10C	#10	16mm (5/8")	235mm (9.25")	32mm (1.26")
MT28337-12C	#12	19mm (¾")	235mm (9.25")	32mm (1.26")

TC Tungsten Carbide

Al Aluminium Jacket Ac Acetal Jacket VB Venturi Bore

#### Tungsten Carbide Double Venturi Blast Nozzle with Aluminium Jacket



This nozzle offers a 35% larger blast pattern than a standard Venturi nozzle with only a small loss in abrasive velocity. Designed to be used on jobs where a more even dispersion of abrasive is required through a larger blast pattern. Supplied with a rubber gasket, it is ideally suited for use with plastic and cereal type abrasive media.







Technical Specification	on			
Part Number Contractor Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter
MT28346-4C	#4	6.35mm (1/4")	149mm (5.86")	25mm (0.98")
MT28346-5C	#5	8mm (5/16")	162mm (6.37")	25mm (0.98")
MT28346-6C	#6	9.5mm (3/8")	176mm (6.92")	25mm (0.98")
MT28346-7C	#7	11mm (½16")	216mm (8.50")	25mm (0.98")
MT28346-8C	#8	12.5mm (½")	235mm (9.25")	25mm (0.98")

# Tungsten Carbide Straight Bore Nozzle (for 10") with Aluminium Jacket



Ideal for close up cleaning of small parts, this blast nozzle features a tungsten carbide liner encased in an aluminium jacket, offering the greatest resistance to impact or flexing. Supplied with a rubber gasket, these nozzles are suitable for use with the Elcometer 1020 Abrasive Blast Machine.







Technical Specification					
Part Number ¾" (19mm) Fine Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter	
MT29472-2F	#2	3.2mm (1/8")	45mm (1.77")	13mm (0.51")	
MT29472-3F	#3	4.8mm ( <sup>3</sup> / <sub>16</sub> ")	45mm (1.77")	13mm (0.51")	
MT29472-4F	#4	6.35mm (1/4")	45mm (1.77")	13mm (0.51")	
MT29472-5F	#5	8mm ( <sup>5</sup> / <sub>16</sub> ")	45mm (1.77")	13mm (0.51")	
MT29472-6F	#6	9.5mm (3/8")	45mm (1.77")	13mm (0.51")	
MT29472-8F	#8	12.5mm (½")	45mm (1.77")	13mm (0.51")	

TC Tungsten Carbide

Aluminium Jacket



DV Double Venturi

SB Straight Bore

# Tungsten Carbide 45° Angled Liner with Aluminium Jacket

Ideal for getting inside tight or hard to reach places such as behind flanges, around corners or inside pipes, this angled nozzle with rubber gasket is compact, shoots out abrasive at a 45° angle and has an aluminium jacket providing strength and endurance.









Technical Specifica	tion				
Part Number	Nozzle No.	Orifice Diame	Number	Length	Entry Diameter
Contractor Thread	NOZZIE NO.	Office Diame	of Holes	Length	Lifty Diameter
MT28442-2C	#2	3.2mm (1/8")	1	88mm (3.46")	25mm (0.98")
MT28443-2C	#2	3.2mm (1/8")	2	88mm (3.46")	25mm (0.98")
MT28444-2C	#2	3.2mm (1/8")	3	88mm (3.46")	25mm (0.98")
MT28442-3C	#3	4.8mm (3/16")	1	88mm (3.46")	25mm (0.98")
MT28443-3C	#3	4.8mm ( <sup>3</sup> / <sub>16</sub> ")	2	88mm (3.46")	25mm (0.98")
MT28444-3C	#3	4.8mm ( <sup>3</sup> / <sub>16</sub> ")	3	88mm (3.46")	25mm (0.98")
MT28442-4C	#4	6.35mm (1/4")	1	88mm (3.46")	25mm (0.98")
MT28443-4C	#4	6.35mm (1/4")	2	88mm (3.46")	25mm (0.98")
MT28444-4C	#4	6.35mm (1/4")	3	88mm (3.46")	25mm (0.98")
MT28442-5C	#5	8mm (5/16")	1	88mm (3.46")	25mm (0.98")
MT28443-5C	#5	8mm (5/16")	2	88mm (3.46")	25mm (0.98")
MT28444-5C	#5	8mm (5/16")	3	88mm (3.46")	25mm (0.98")
MT28442-6C	#6	9.5mm (3/s")	1	88mm (3.46")	25mm (0.98")
MT28443-6C	#6	9.5mm (3/8")	2	88mm (3.46")	25mm (0.98")
MT28444-6C	#6	9.5mm (3/8")	3	88mm (3.46")	25mm (0.98")

# Silicon Carbide Venturi Nozzle with Acetal Jacket

The Silicon Carbide Venturi Nozzle features an acetal jacket offering high impact protection. Designed to have a prolonged lifespan, this nozzle is ideal for use with harder abrasives such as chilled iron and aluminium oxide. Supplied with a rubber gasket, the nozzles have a silicon carbide liner which offers impact resistance and durability whilst remaining lightweight.









Technical Specification					
Part Number	Nozzle No.	Nozzle No. Orifice Diame			Foto Diameter
Contractor Thread	NOZZIE NO.	Office Di	ameter	Length	Entry Diameter
MT28324-3C	#3	4.8mm (	3/16")	140mm (5.51")	32mm (1.26")
MT28324-4C	#4	6.35mm (	1/4")	140mm (5.51")	32mm (1.26")
MT28324-5C	#5	8mm (	5/16")	150mm (5.9")	32mm (1.26")
MT28324-6C	#6	9.5mm (	3/8")	175mm (6.89")	32mm (1.26")
MT28324-7C	#7	11mm (	7/16")	205mm (8.07")	32mm (1.26")
MT28324-8C	#8	12.5mm (	1/2")	235mm (9.25")	32mm (1.26")



TC Tungsten Carbide SC Silicon Carbide Al Aluminium Jacket Ac Acetal Jacket VB Venturi Bore AN Angled Nozzle











# Silicon Nitride "Syalon" Venturi Nozzle with Acetal Jacket



Designed to be hard wearing and long lasting, these blast nozzles feature a silicon nitride liner which reduces nozzle weight by approximately 50%. Supplied with a rubber gasket, the nozzle offers high temperature resistant properties, making it resistant to corrosion by many acids and alkalis. The acetal jacket also offers improved impact protection.







Technical Specification					
Part Number Contractor Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter	
MT28446-4C	#4	6.35mm (1/4")	140mm (5.51")	32mm (1.26")	
MT28446-5C	#5	8mm ( <sup>5</sup> / <sub>16</sub> ")	150mm (5.9")	32mm (1.26")	
MT28446-6C	#6	9.5mm (¾")	175mm (6.89")	32mm (1.26")	
MT28446-7C	#7	11mm ( <sup>7</sup> / <sub>16</sub> ")	205mm (8.07")	32mm (1.26")	
MT28446-8C	#8	12.5mm (½")	235mm (9.25")	32mm (1.26")	

#### Boron Carbide Venturi Nozzle with Aluminium Jacket and Rubber Sleeve



Featuring a liner made from hot-pressed boron carbide, this nozzle offers chemical and wear resistance properties, making it ideal for abrasives such as garnet, aluminium oxide and steel grit. As well as being heat and corrosion resistant, the nozzle's aluminium jacket makes it lightweight and its rubber sleeve is shock absorbent, preserving the internal liner. The nozzles are supplied with a rubber gasket.







Technical Specification	on			
Part Number Contractor Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter
MT28418-3C	#3	4.8mm (¾6")	135mm (5.31")	32mm (1.26")
MT28418-4C	#4	6.35mm (1/4")	140mm (5.51")	32mm (1.26")
MT28418-5C	#5	8mm (5/16")	145mm (5.70")	32mm (1.26")
MT28418-6C	#6	9.5mm (¾")	170mm (6.69")	32mm (1.26")
MT28418-7C	#7	11mm (½16")	190mm (7.48")	32mm (1.26")
MT28418-8C	#8	12.5mm (½")	220mm (8.66")	32mm (1.26")
The following nozzles are	e longer in length (350	)mm/13.77"):		
MT28439-6XLC	#6	9.5mm (%")	350mm (13.77")	32mm (1.26")
MT28439-7XLC	#7	11mm (½16")	350mm (13.77")	32mm (1.26")
MT28439-8XLC	#8	12.5mm (½")	350mm (13.77")	32mm (1.26")

SN Silicon Nitride

BC Baron Carbide



Al Aluminium Jacket Ac Acetal Jacket VB Venturi Bore





# Tungsten Carbide Venturi Liner with Aluminium Jacket & Water Jet System

Ideal for use in situations when dust control is needed, this nozzle mixes water with the abrasive, reducing the amount of dust displaced into the atmosphere. Featuring an aluminium jacket which provides strength and endurance, this nozzle is recommended for use with harder abrasives. The nozzles are supplied with a rubber gasket.





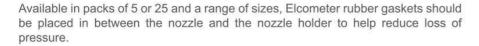




Technical Specification					
Part Number Contractor Thread	Nozzle No.	Orifice Diameter	Length	Entry Diameter	
MT28326-3C	#3	4.8mm ( <sup>3</sup> / <sub>16</sub> ")	120mm (4.72")	25mm (0.98")	
MT28326-4C	#4	6.35mm (1/4")	150mm (5.9")	25mm (0.98")	
MT28326-5C	#5	8mm (5/16")	160mm (6.3")	25mm (0.98")	
MT28326-6C	#6	9.5mm (3/8")	175mm (6.89")	25mm (0.98")	
MT28326-7C	#7	11mm (½16")	210mm (8.27")	25mm (0.98")	
MT28326-8C	#8	12.5mm (½")	230mm (9.05")	25mm (0.98")	

#### **Rubber Nozzle Gaskets**

All Elcometer blast nozzles are supplied with a rubber gasket which is suitable for use with nylon blast nozzle holders. Elcometer aluminium blast nozzle holders are supplied with the correct rubber gasket for use with Elcometer blast nozzles. Please refer to the table below for compatibility of replacement gaskets.





Technical Specific	ation				_
Part Number Pack of 5	Pack of 25	Blast Nozzle Entry Diameter	Thread Type	Compatible with B	last Nozzle Holder Aluminium
MT29212-13F-5	MT29212-13F-25	13mm (0.51")	3/4" (19mm) Fine	•	•
MT29212-25CN-5	MT29212-25CN-25	25mm (0.98")	2" (51mm) Contractor	•	
MT29212-2532CA-5	MT29212-2532CA-25	25mm (0.98")	2" (51mm) Contractor		•
MT29212-32CN-5	MT29212-32CN-25	32mm (1.26")	2" (51mm) Contractor	•	
MT29212-2532CA-5	MT29212-2532CA-25	32mm (1.26")	2" (51mm) Contractor		•







7-2

When connecting multiple air powered devices to a single compressor, the demands on air flow can vary as each device switches on or off. An Air Distribution Manifold (ADM) can reduce fluctuations in demand, acting as a buffer, to provide a more consistent air supply to multiple devices.





	ADM75	ADM150	ADM300
Capacity	75 litres (2.6cu ft)	150 litres (5.3cu ft)	300 litres (10.6cu ft)
Pot Diameter	353mm (13%°)	492mm (19%")	604mm (23%")
Height	1155mm (45½")	1155mm (45½")	1365mm (53 <sup>4</sup> / <sub>5</sub> ")
Width	663mm (261/10")	762.3mm (30")	846mm (333/10")
Weight	90kg (198.4lb)	125kg (275.6lb)	205kg (452lb)
Air Inlet	1 x 50.8mm (2") BSP	1 x 50.8mm (2") BSP	1 x 76.2mm (3") BSP1
Number of Air Outlet Points	5	5	6
Air Outlet Dimensions	1 x 50.8mm (2") BSP <sup>2</sup> 4 x 31.75mm (11/4") BSP	1 x 50.8mm (2") BSP <sup>2</sup> 4 x 31.75mm (11/4") BSP	2 x 50.8mm (2") BSP <sup>2</sup> 4 x 31.75mm (11/4") BSP
Pressure Relief Valve Outlet	1 x 25.4mm (1") BSP <sup>3</sup>	1 x 25.4mm (1") BSP <sup>3</sup>	1 x 25.4mm (1") BSP <sup>3</sup>
Drain Outlet	1 x 19mm (¾") BSP Ball Valve	1 x 19mm (¾") BSP Ball Valve	1 x 19mm (¾") BSP Ball Valve
Max Working Pressure (WP)	15bar (217psi)	15bar (217psi)	15bar (217psi)
Operating Temperature Range	0 to 60°C (32 to 140°F)	0 to 60°C (32 to 140°F)	0 to 60°C (32 to 140°F)

 $<sup>^{\</sup>rm I}$  With 76.2mm (3") to 50.8mm (2") removable reducing bush fitted  $^{\rm 3}$  To fit Elcometer PRV, a 12.7mm (0.5") reducing bush is required

 $<sup>^2</sup>$  With 50.8mm (2") to 38.1mm (1½") removable reducing bush see page 7-5

Elcometer's Air Distribution Manifolds are designed with a range of features and benefits with the ability to connect up to 6 different air powered appliances at any one time, depending on the model.



The Elcometer Air Distribution Manifold is supplied with plugs so that when an air outlet is not in use, the compressed air does not escape.

The ADM features a moisture separation system to ensure there is minimal moisture in the compressed air that is dispensed, this works by cooling the air so that the water particles are removed, the water then drips out of the adjustable ball valve exiting the air distribution manifold.

Part Numbers	
Part Number	Description
ADM75	75 litre (2.6cu ft) Air Distribution Manifold with 5 outlets
ADM150	150 litre (5.3cu ft) Air Distribution Manifold with 5 outlets
ADM300	300 litre (10.6cu ft) Air Distribution Manifold with 6 outlets

<sup>&</sup>lt;sup>1</sup> Amount of outlets dependent on model, see page 7-3 for more information

<sup>&</sup>lt;sup>2</sup> Size of inlet dependent on model, see page 7-3 for more information

#### **Certified Pressure Relief Valves**

Pressure relief valves must be incorporated into the system to meet global safety standards. Elcometer's certified pressure relief valves can be easily fitted to your Elcometer air distribution manifold which is fitted to the RCV4000+ remote control valves. Pressure relief valves are designed to discharge the compressed air in the blast machine upon reaching the crack pressure.



<b>Part Numbers</b>	
Part Number	Description
MT28606	½" (13mm) Certified Pressure Relief Valve (12bar/174psi), BSP
MT28607	½" (13mm) Certified Pressure Relief Valve (15bar/217psi), BSP
MT30199	1" - ½" (25mm - 13mm) Male-Female Reducing Bush - required for pressure relief valve, BSP

Accessories	
Part Number	Description
MT30537	Pressure Gauge
MT30539	Pressure Gauge Connection Assembly (includes Pressure Gauge, T Piece, Bush, Nipple and Plug)

#### **Reducing Bushes**

Elcometer offer a range of reducing bushes that are resistant to corrosion and threaded to BSP standards. The reducing bushes are quick and easy to install to your air distribution manifold.





# Plugs

Designed to stop air leaving the outlets you are not currently using, Elcometer's plugs come in a range of sizes and are threaded to BSP standards.

Part Numbers		
Part Number	Description	
MT30183	2" (51mm) Plug BSP	
MT30182	1½" (38mm) Plug BSP	
MT30184	11/4" (32mm) Plug BSP	
MT29681	1" (25mm) Plug BSP	
MT30099	½" (13mm) Plug BSP	
MT28596	1/4" (6mm) Plug BSP	



# Air Handling & Moisture Separation



# Air Supply Ball Valves

Air supply ball valves are fitted between the air hose and the moisture separator to isolate the compressor when undertaking maintenance work. The valves disconnect the compressed air from the blast machine for safe work.

Part Numbers		
Part Number	Description	
MT30189	3" (76mm) Male-Female Ball Valve BSP	
MT30191	2" (51mm) Male-Female Ball Valve BSP	
MT29177	11/2" (38mm) Male-Female Ball Valve BSP	
MT30193	11/4" (32mm) Male-Female Ball Valve BSP	
MT30195	1" (25mm) Male-Female Ball Valve BSP	
MT28610	3/4" (19mm) Male-Female Ball Valve BSP	
MT28619	1/4" (6mm) Female-Female Ball Valve BSP	
MT30085	1/4" (6mm) Male Adaptor BSP	



# **Universal Coupling**

Part Numbers		
Description		
plings:		
2" (51mm) 4 Claw Coupling		
1½" (38mm) 4 Claw Coupling		
plings:		
11/4" (32mm) 2 Claw Coupling		
	2" (51mm) 4 Claw Coupling 1½" (38mm) 4 Claw Coupling blings:	



Elcometer's comprehensive range of Compressed Air Bull Hose & Couplings is designed to be incredibly hard wearing, tough and safe.

# Compressed Air Bull Hose

Typically used to supply air flow from the air compressor into the blast pot; with a super synthetic oil resistant liner and durable UV resistant wrapped outer cover, this compressed air bull hose has a pressure rating of 20bar (290psi) with a 3:1 safety factor. The Elcometer Compressed Air Bull Hose is constructed for tough commercial and industrial wear and tear.



# Compressed Air Bull Hose Assemblies

Elcometer's compressed air bull hose assemblies include couplings on both ends (either 2/4 claw or nut & tail), a bolt clamp (with either two or four bolts) and sealing gaskets everything you need to get our air distribution manifold up and running with your abrasive blast machine.



# Air Hose Couplings

Manufactured out of steel; the air couplings connect to either side of the compressed air bull hose and on to each of the inlets and outlets on the air distribution manifold to ensure a safe connection. Available in two different formats - nut & tail and claw & tail couplings.



# Accessories

A range of nipples, clamps and gaskets are available to ensure your blast system is able to run as safely and efficiently as possible.



# **Compressed Air Bull Hose**



The Elcometer Compressed Air Bull Hose is 20 metres long, has a working pressure rate of 20bar (290psi) and is available in a range of hose diameters.

Part Numbers				
Part Number	Hose Length	Internal Diameter (ID)	Outside Diameter (OD)	
MT30071-1	20m (65.6ft)	19mm (¾")	29mm (15/32")	
MT30071-2	20m (65.6ft)	38mm (1½")	52mm (2")	
MT30071-3	20m (65.6ft)	51mm (2")	65mm (2½")	

# Compressed Air Bull Hose Assemblies with 2-Claw Hose Couplings & Tail



This Elcometer Elcometer Compressed Air Bull Hose Assembly includes 2-Claw Hose Coupling with tails and a two bolt clamp on opposing ends. Attached to the 15 metre compressed air bull hose, the assembly is also supplied with sealing gaskets.

Part Numbers				
Part Number	Hose Length	Internal Diameter (ID)	Outside Diameter (OD)	Clamp Type
MT30572	15m (50ft)	19mm (¾")	29mm (15/32")	2 Bolt Clamp

# Compressed Air Bull Hose Assemblies with 4-Claw Hose Couplings & Tail



The following Elcometer Compressed Air Bull Hose Assemblies include 4-claw hose couplings with tails, clamps and sealing gaskets, attached to the 20 metre compressed air bull hose.

Part Numbers				
Part Number	Hose Length	Internal Diameter (ID)	Outside Diameter (OD)	Clamp Type
MT31281	20m (65.6ft)	38mm (1½")	52mm (2")	4 Bolt Clamp

# Compressed Air Bull Hose Assemblies with Nut & Tail



The following Elcometer Compressed Air Bull Hose Assemblies include nut & tail couplings, clamps and sealing gaskets, attached to the 20 metre compressed air bull hose.

Part Numbers				
Part Number	Hose Length	Internal Diameter (ID)	Outside Diameter (OD)	Clamp Type
MT30162-1	20m (65.6ft)	38mm (1½")	52mm (2")	2 Bolt Clamp
MT30162-2	20m (65.6ft)	38mm (1½")	52mm (2")	4 Bolt Clamp

# 2 Claw Hose Couplings with Tail

Manufactured from steel and used to connect the compressed air bull hose to the air distribution manifold or blast machine with a quick, quarter turn connection.

Part Numbers		
Part Number	Description	
MT30547	11/4" (32mm) 2 Claw Coupling with Tail	
MT29563-2	3/4" (19mm) 2 Claw Coupling with Tail	



# 4 Claw Hose Couplings with Tail

Similar to the 2 Claw Hose Coupling but with 4 claws, making it a more secure connection.

Part Numbers		
Part Number	Description	
MT29556-3	2" (51mm) 4 Claw Coupling with Tail	
MT29545-4	11/2" (38mm) 4 Claw Coupling with Tail	



# **Nut and Tail Hose Couplings**

Available in a range of threads, the nut and tail hose couplings are screwed on to the compressed air bull hose to connect it to the air distribution manifold or blast machine.

Part Numbers		
Part Number	Description	
MT30163	2" (51mm) Nut and Tail Hose Coupling	
MT30179	11/2" (38mm) Nut and Tail Hose Coupling	
MT30178	11/4" (32mm) Nut and Tail Hose Coupling	
MT30177	1" (25mm) Nut and Tail Hose Coupling	



# **Hex Nipples**

Used to connect two hoses or components with female-to-female threads.

Part Numbers		
Part Number	Description	
MT30223	2" (51mm) Male-Male Hex Nipple	
MT29663	11/2" (38mm) Male-Male Hex Nipple	
MT30012	11/4" (32mm) Male-Male Hex Nipple	
MT29679	1" (25mm) Male-Male Hex Nipple	
MT29688	3/4" (19mm) Male-Male Hex Nipple	
MT30541	11/4" (32mm) - 3/4" (19mm) Reducing Bush	
MT30549	11/2" (38mm) - 3/4" (19mm) Reducing Bush	



# Air Handling & Moisture Separation



# **Clamps for Hose Couplings**

Clamps are used to connect the hose to the hose coupling with an airtight connection. They are simple to use but highly effective and are available in a wide range of sizes.

Part Numbers		
Part Number	Description	
MT29563-1	3/4" (19mm) Bull Hose 2-Bolt Clamp Fitting	
MT30228	11/2" (38mm) Bull Hose 2-Bolt Clamp Fitting	
MT30202	11/2" (38mm) Bull Hose 4-Bolt Clamp Fitting	
MT30227	2" (51mm) Bull Hose 4-Bolt Clamp Fitting	



# **Rubber Gaskets**

Elcometer Rubber Gaskets are used to seal 2 Claw and 4 Claw air couplings.

Part Numbers		
Part Number	Description	
MT29564	3/4" (19mm) Bull Hose Coupling Gasket (x5)	
MT29560	11/4" (32mm) Bull Hose Coupling Gasket (x5)	



# **Leather Washers**

Elcometer Leather Washers are used to seal Nut and Tail air couplings.

Part Numbers		$\overline{}$
Part Number	Description	
MT30515-5	1" (25mm) Bull Hose Coupling Gasket (x4)	
MT30515-6	11/4" (25mm) Bull Hose Coupling Gasket (x4)	
MT30515-7	1½" (38mm) Bull Hose Coupling Gasket (x4)	
MT30515-8	2" (51mm) Bull Hose Coupling Gasket (x4)	



# **Elcometer Hose Cutter**

To maximise the lifetime of the coupling and minimise pressure loss a good airtight hose/coupling fit is required.

The progressive ratchet cutting action of the Elcometer Hose Cutter cuts rubber hose up to 63mm ( $2\frac{1}{2}$ ") outside diameter cleanly and squarely.

Part Numbers		
Part Number	Description	
MT29211	Hose Cutter	

#### Whip Check Safety Cable

Designed for containing the coupling connection in case of accidental separation; the Elcometer Whip Safety Cable creates extra protection for the operator in the event of a coupling failure.

Manufactured from high strength corrosion resistant steel, a whip check should be connected at all connections including hose-to-hose and hose to blast pot.

Part Numbers		
Part Number	For Air Hose Internal Diameter (ID)	For Air Hose Outside Diameter (OD)
MT29157	13 - 32mm (½" - 1¼")	28 - 48mm (11/8" - 17/8")
MT29156	38mm (1½")	56mm (2 <sup>3</sup> / <sub>16</sub> ")



#### **Moisture Separator**

The highly efficient Elcometer Moisture Separator prevents moisture and oil from the compressor entering the blast machine. Eliminating up to 98% of the moisture and oil from compressed air, it prevents the abrasive becoming damp and clogging the blast machine.

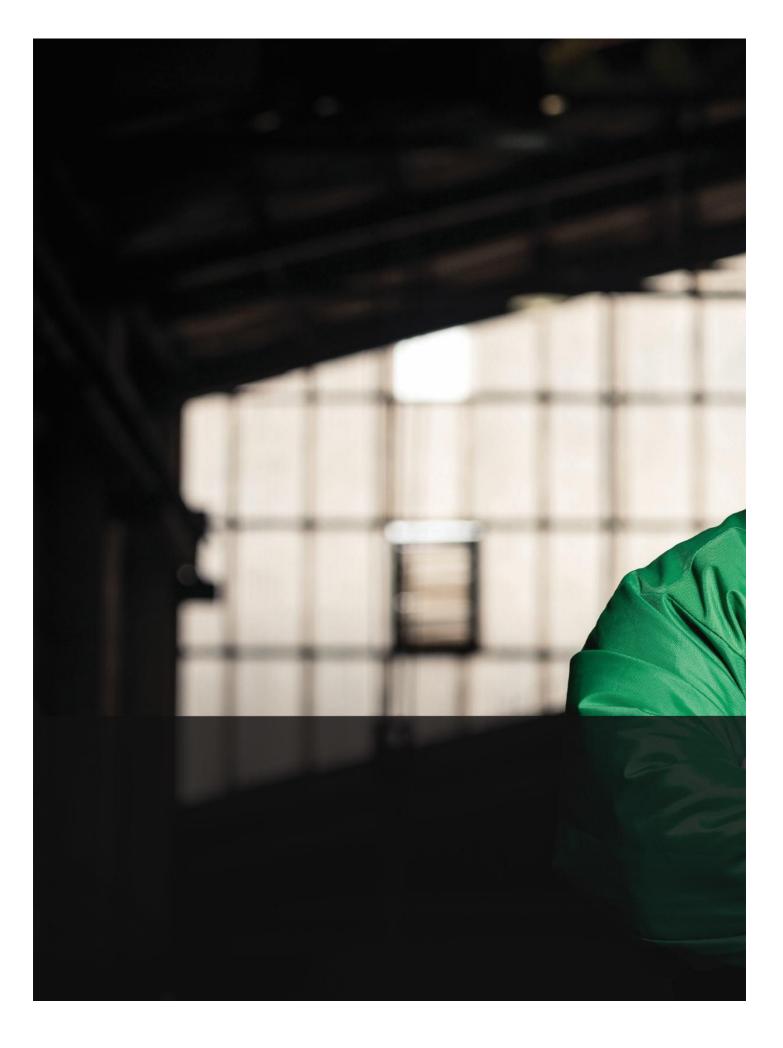
As the Elcometer Moisture Separator is rated to a working pressure of 15bar (217psi), it does not have a glass viewing area, this ensures it will not break under pressure.

Part Numbers		_
Part Number	Description	
MT28617	Elcometer 1½" (38mm) Moisture Separator Assembly for Elcometer Abrasive Blast Machines	











# Operator Equipment

# PRODUCT RANGE INDEX

Elcometer supply a wide range of operator safety equipment from state-of-the-art RPB® Nova blast helmets with a selection of accessories, to our all-purpose clothing, protective suits and capes.



Safety & comfort are the two watchwords when it comes to blast helmet design and the RPB® Nova range of blast helmets win on both parts. All our helmets are designed for your comfort and safety; lightweight and abrasive resistant and built with a tough helmet shell.

Meeting the ISO 9001, CE and NIOSH standards and providing hearing and eye protection, our blast helmets are ideal for your safety needs.



# Operator Equipment - Blast Helmets

RPB® Nova 3® Blast Helmets - strong, robust, durable and comfortable for ultimate performance.

The RPB® Nova 3® Blast Helmet can save you 45 minutes a day with its "Fit and Save™" tear-off lens system.



## **Best in Class Comfort**

The RPB® Nova 3® blast helmet is one of the most comfortable blast helmets in the industry, thanks to the moulded adjustable inner padding system that creates a secure custom fit, spreading the weight evenly to reduce fatigue. Complete with a streamlined air flow system to reduce lens fogging and eliminate head chill by directing air to the breathe zone - the Nova 3® lets you blast in comfort for longer.

# Safe by Design

The RPB® Nova 3® creates a complete barrier to dust, abrasives and particulates entering the helmet, complete with clip on capes to stop abrasives and dust entering the helmet.

Thanks to its enhanced optical design, the Nova 3® ensures optimum downward and peripheral vision due to large viewing window. The Nova 3® is tested to the highest industry Standards worldwide including NIOSH, ANSI Z87.1 - 2010+ and ANSI Z89.1 - 2012 Type 1 Class C; giving you complete peace of mind.

# **Optimise Productivity**

When you are not blasting you are not making money, that's why the RPB® Nova 3® has individually pre-folded visor tabs ensuring you tear off only one lens at a time, saving up to 45 minutes per day, per blaster.



Optimum downward and peripheral vision



Tear off visor tabs with gloved hands



Adjustable inner padding creates a custom fit

Product Features			
	Nova 1®	Nova 2000®	Nova 3®
Lightweight, abrasive resistant, tough helmet shell			
"Fit and Save"™ Tear-off lens system			
Streamlined air system to prevent lens fogging and head chill			
Outer, intermediate (optional), and inner lenses			
Replaceable sound deadening foam padding			
Prevents abrasive and dust ingress			
Low Flow Indicator			
Large curved window for optimum visibility			
Even weight distribution to prevent fatigue			
One click inner lens replacement			-
Ratchet adjustable padding system for custom fit			
Optional communication system	Nova 1 <sup>®</sup> Talk™	Nova 2000® Talk™	Nova 3® Talk™
Optional helmet light system			L4™ Light System

Part Numb	ers
Part Number	Description
MT371150	Nova 3® Blast Helmet (CE) Supplied with Constant Flow Valve & Nylon Respirator Cape - For Global Markets
MT370250	Nova 3® Blast Helmet (NIOSH) Supplied with Constant Flow Valve & Nylon Respirator Cape - For North American Markets

#### Nova 3<sup>®</sup> Hygiene Kits



Nova 3® Hygiene Kit

The RPB® Nova 3® hygiene kits are available in a range of sizes and include a new headliner, neck pad, side padding, side padding covers and two alcohol pads to refresh your helmet.

Part Number	S		
Part Number	Description	Size	
MT3736A05	Nova 3 <sup>®</sup> Hygiene Kit, Size A-05	Large	
MT3736A10	Nova 3 <sup>®</sup> Hygiene Kit, Size A-10	Standard	
MT3736A15	Nova 3 <sup>®</sup> Hygiene Kit, Size A-15	Medium	
MT3736A20	Nova 3 <sup>®</sup> Hygiene Kit, Size A-20	Small	

#### C40™ Climate Control



C40™ Climate Control

The RPB® C40™ Climate Control Device lets the user switch from heating to cooling effortlessly, ensuring optimal levels of comfort.

Part Number	S	-
Part Number	Description	
MT03502	C40™ Climate Control Device - (CE) For Global Market	

#### **Hot & Cold Air Tube Assemblies**



Cold Air Tube Assembly

The Cold Air Tube Assembly cools compressed breathing air coming into respirators by as much as 18°C (32°F), the Hot Air Tube Assembly warms compressed breathing air coming into respirators by as much as 17°C (30°F), maximising worker comfort and increasing productivity. Fitted with an airflow regulator that allows the user to adjust the outgoing air temperature to suit their requirements.

Pa
Par
MT
MT

Hot Air Tube Assembly

Part Numbers	s	
Part Number	Description	
MT400001CE	Cold Air Tube Assembly (CE) - For Global Market	
MT400020CE	Hot Air Tube Assembly (CE) - For Global Market	

#### Nova 3<sup>®</sup> Capes and Jackets





<b>Part Numbers</b>		
Part Number	Description	
MT3750	Nova 3® Nylon Respirator Cape	
MT3751	Nova 3® Extra Length Nylon Respirator Cape	
MT3752	Nova 3® Leather Respirator Cape	
MT3753	Nova 3® Extra Length Leather Respirator Cape	
MT3754	Nova 3® Blast Jacket - XL	
MT3755	Nova 3® Blast Jacket - XXL	
MT3759	Nova 3® Cape Cover Band	
MT07900	Nova 3® Adjustable Head Support	

#### Nova 3® Flow Control Valve & Breathing Tube



Nova 3® Flow Control Valve

The RPB® Nova 3® Flow Control Valve with belt connects the breathe air supply from the air filter to the breathing tube of the Nova 3® helmet.

Parf Numbers		
Part Number	Description	
MT2016CE	Flow Control Valve - Global Market	
MT2021B	Nova 3® Breathing Tube	
MT3729	Nova 3® Air Inlet Kit	
MT37292	Nova 3® Low Flow Indicator Adaptor	
MT2022	Flow Control Valve Belt complete with Buckles	
MT03102	Constant Flow Valve Assembly - CE	

# L4™ Light

Ideal for blasters in tanks and other confined spaces where light is scarce. The light mounts securely to the top of the RPB® Nova 3® respirator, providing light wherever the operator looks.

Part Number	s	=
Part Number	Description	
MT09520G	L4 <sup>™</sup> Helmet Blast Light Assembly - Global Market	
MT09512	L4™ Light with Strap and Mount (Includes MT09520)	
MT09520	L4™ Light Mounting Clip	
MT09522	L4™ Light Outer Lens (x10)	
MT09525	L4™ Light Battery Charger	
MT09021UK	L4™ Light Power Cable - UK	
MT09021EU	L4™ Light Power Cable - EU	
MT09021AU	L4™ Light Power Cable - AU	
MT095322	L4™ Light Battery Pack	



L4<sup>™</sup> Light on Nova 3®

## Nova 3<sup>®</sup> Talk<sup>™</sup>

The RPB® Nova 3® Talk™ is a wireless communication system ideal for crew on tanks, in shipyards, water towers and areas that are difficult to access.

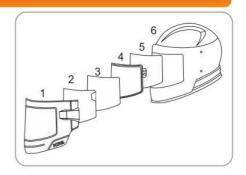
Part Number	rs	
Part Number	Description	
MT09903	Nova 3® Talk™ - In-Helmet Communication Upgrade Kit	
MT09930	Motorola Connection Cable for Two Pin Radios	
MT09931	Motorola Connection Cable for Multi Pin Radios	
MT09932	Motorola Connection Cable for Multi Pin Radios	
MT09933	Kenwood Connection Cable for Two Pin Radios	
MT09934	Motorola Connection Cable for Multi Pin Radios	
MT09935	Motorola Connection Cable for Single Pin Radios	
MT09936	Kenwood Connection Cable for Multi Pin Radios	
MT09937	Motorola Connection Cable (x10 connector)	
MT09938	Nova Talk <sup>™</sup> cable for VX-261 Radio	
MT09939	Nova Talk <sup>™</sup> cable for Apex Icom IC-F4002 Radio	



Nova 3<sup>®</sup> Talk™

## Nova 3<sup>®</sup> Lens System

Par	t Numbers	
ID	Part Number	Description
1	MT3726	Nova 3® Visor Kit (includes Hinge & Latch)
2	MT3725	Nova 3® Tear-off Lens (x50)
3	MT3724	Nova 3® Outer Lens (x50)
4	MT3723	Nova 3 <sup>®</sup> Inner Lens Frame
5	MT3722	Nova 3® Inner Lens (x10)
	MT30267	Nova 3® Tinted Inner Lens (x10)
6	MT3721	Nova 3® Inner Gasket
	MT37278	Nova 3® Visor Mount Kit
	MT37272	Nova 3® Hinge Lock
	MT30269	Nova 3® Cassette Lens, 5 Tear Off & 1 Outer Lens (x20)



## Nova 3® Blast Helmet Spares

Part Numbers			
Part Number	Description	Part Number	Description
MT3730	Nova 3® Padding Connectors (left & right)	MT3733	Nova 3 <sup>®</sup> Side Padding Covers (x5)
MT3731	Nova 3® Side Padding Frames (left & right)	MT3733TK	Nova 3 <sup>®</sup> Talk <sup>™</sup> Side Padding Covers (x5)
MT3732A05	Nova 3® Side Padding Foam & Covers, Size A-05	MT3734	Nova 3® Head Liner Kit (includes MT37341)
MT3732A10	Nova 3® Side Padding Foam & Covers, Size A-10	MT37341	Nova 3® Head Liner Clips (x4)
MT3732A15	Nova 3® Side Padding Foam & Covers, Size A-15	MT3735	Nova 3® Head Liner Foam Padding
MT3732A20	Nova 3® Side Padding Foam & Covers, Size A-20	MT37351	Nova 3® Neck Pad



# **Advanced Safety**

Constructed out of hard wearing, abrasion resistant polyethylene, the RPB® Nova 2000® is fully certified to worldwide Standards including NIOSH, CE 0194, and exceeds AS/NZS Standards.

A full range of blast capes and jackets are available that securely attach inside the blast helmet to prevent abrasive ingress.

# **Operator Comfort**

The RPB® Nova 2000® is the original fully padded, motorcycle fit blasting helmet, ensures optimal user comfort and allows the helmet to turn with the users head, providing a perfect field of vision.

The helmet's weight is evenly distributed, balanced across the head and shoulders, removing the pressure points created by head harnesses. The padded interior is available in three different sizes, ensuring a perfect fit.

# **Optimise Productivity**

To increase your productivity the RPB® Nova 2000® comes complete with a tear off lens system to allow for uninterrupted blasting and perfect vision throughout the blasting work shift.

The built-in streamlined air system directs air to the breathe zone, preventing lens fogging and head chill, letting you blast for longer without interruption.



Padded interior available in three sizes for optimal comfort fit



Optimum downward and peripheral vision



Individual tear off visor tabs

	Nova 1®	Nova 2000®	Nova 3®
Lightweight, abrasive resistant, tough helmet shell			
"Fit and Save"™ Tear-off lens system	•		
Streamlined air system to prevent lens fogging and head chill			
Outer, intermediate (optional), and inner lenses		*	
Replaceable sound deadening foam padding			
Prevents abrasive and dust ingress		•	
Low Flow Indicator		•	
Large curved window for optimum visibility			
Even weight distribution to prevent fatigue			
One click inner lens replacement			
Ratchet adjustable padding system for custom fit			
Optional communication system	Nova 1® Talk™	Nova 2000® Talk™	Nova 3® Talk™
Optional helmet light system			L4™ Light System

Part Numbe	Part Numbers	
Part Number Description		
MT2000CE	Nova 2000® Blast Helmet (CE) Supplied with Constant Flow Control & Nylon Respirator Cape - For Global Markets	
MT2000	Nova 2000® Blast Helmet (NIOSH) Nylon Cape, Flow Control - For North American Markets	

# Operator Equipment - Blast Helmets

#### C40™ Climate Control



The RPB® C40™ Climate Control Device can heat and cool your supplied air as desired. With the slide of a lever, operators can switch from heating to cooling effortlessly, ensuring optimal levels of comfort.

Part Numbers	
Part Number	Description
MT03502	C40™ Climate Control Device - (CE) For Global Market

C40™ Climate Control

#### **Hot & Cold Air Tube Assemblies**



Cold Air Tube Assembly

The Cold Air Tube Assembly cools compressed breathing air coming into respirators by as much as 18°C (32°F), the Hot Air Tube Assembly warms compressed breathing air coming into respirators by as much as 17°C (30°F), maximising worker comfort and increasing productivity. Fitted with an airflow regulator that allows the user to adjust the outgoing air temperature to suit their requirements.



Hot Air Tube Assembly

Part Numbers		_
Part Number	Description	
MT400001CE	Cold Air Tube Assembly (CE) - For Global Market	
MT400020CE	Hot Air Tube Assembly (CE) - For Global Market	

#### Nova 2000® Flow Control Valve & Breathing Tube



Nova 2000® Flow Control Valve

Part Numbers		
Part Number	Description	
MT2016CE	Flow Control Valve (CE) - For Global Market	

The RPB® Nova 2000® Flow Control Valve with belt connects the breathe air supply from the

Part Number	Description
MT2016CE	Flow Control Valve (CE) - For Global Market
MT2021	Nova 2000 <sup>®</sup> Breathing Tube
MT3729	Nova 2000® Air Inlet Kit
MT37292	Nova 2000® Low Flow Indicator Adaptor
MT2022	Flow Control Valve Belt complete with Buckles

#### Nova 2000® Talk™



Nova 2000<sup>®</sup> Talk™

The RPB® Nova Talk™ is a wireless communication system designed to build upon the safety and productivity enhancing features of the RPB® Nova 2000®. It is ideal for crew on tanks, in shipyards, water towers and areas that are difficult to access.

Part Number	rs	
Part Number	Description	
MT09900	Nova 2000® Talk™ - In-Helmet Communication Upgrade Kit	
MT09930	Motorola Connection Cable for Two Pin Radios	
MT09931	Motorola Connection Cable for Multi Pin Radios	
MT09932	Motorola Connection Cable for Multi Pin Radios	
MT09933	Kenwood Connection Cable for Two Pin Radios	
MT09934	Motorola Connection Cable for Multi Pin Radios	
MT09935	Motorola Connection Cable for Single Pin Radios	
MT09936	Kenwood Connection Cable for Multi Pin Radios	
MT09937	Motorola Connection Cable (x10 connector)	
MT09938	Nova Talk <sup>™</sup> cable for VX-261 Radio	
MT09939	Nova Talk <sup>™</sup> cable for Apex Icom IC-F4002 Radio	

## Nova 2000® Hygiene Kits

The RPB® Nova 2000® hygiene kits are available in a range of sizes and include a new headliner, neck pad, side padding, side padding covers and two alcohol pads to refresh your helmet.

Part Numbers		
Part Number	Description	
MT200910SH	Nova 2000® Hygiene Kit - Small	
MT200910	Nova 2000 <sup>®</sup> Hygiene Kit - Medium	
MT200910LH	Nova 2000 <sup>®</sup> Hygiene Kit - Large	



Nova 2000® Hygiene Kit

## Nova 2000® Blast Helmet Spare Parts

Part Numbers	
Part Number	Description
MT2008	Nova 2000® Latch Kit
MT2009SH	Nova 2000® Helmet Liner - Small
MT2009	Nova 2000® Helmet Liner - Medium
MT2009LH	Nova 2000® Helmet Liner - Large
MT2010SH	Nova 2000® Side Wings Small (pair)
MT2010	Nova 2000® Side Wings Medium (pair)
MT2010LH	Nova 2000® Side Wings Large (pair)
MT2010GSH	Nova 2000® Side Wings Small (pair, for wearers with glasses)
MT2010G	Nova 2000® Side Wings Medium (pair, for wearers with glasses)
MT2010GLH	Nova 2000® Side Wings Large (pair, for wearers with glasses)
MT20067	Nova 2000® Air Inlet Assembly - For North American Market (NIOSH)
MT03102	Constant Flow Valve Assembly - CE



Nova 2000® Helmet

## Nova 2000® Capes and Jackets

Part Numbers	Part Numbers		
Part Number	Description		
MT2002	Nova 2000 <sup>®</sup> Nylon Respirator Cape		
MT2002XL	Nova 2000® Extra Length Nylon Respirator Cape		
MT2002L	Nova 2000 <sup>®</sup> Leather Respirator Cape		
MT2002HBXL	Nova 2000 <sup>®</sup> Nylon Blast Jacket - XL		
MT2002HBXXL	Nova 2000 <sup>®</sup> Nylon Blast Jacket - XXL		
MT2012	Nova 2000 <sup>®</sup> Inner Bib		
MT2013	Nova 2000 <sup>®</sup> Cape Cover Band		



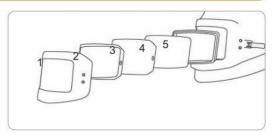
Nylon Respirator Cape



Nylon Respirator Jacket

## Nova 2000® Lens System

Par	Numbers		-
ID	Part Number	Description	
1	MT2004	Nova 2000 <sup>®</sup> Visor Kit	
2	MT2017	Nova 2000® Tear-off Lens (x50)	
3	MT2031	Nova 2000® Outer Lens (x50)	
4	MT2018	Nova 2000 <sup>®</sup> Inner Lens (x10)	
	MT30268	Nova 2000® Tinted Inner Lens (x10)	
5	MT2003	Nova 2000 <sup>®</sup> Window Gasket	





## Safe and Durable

Made to the same exacting Standards as the RPB® Nova 2000®, engineered to ensure operator comfort and safety, the only difference being its large flat screen.

Constructed out of hard wearing, abrasion resistant polyethylene, the Nova 1® is fully certified to worldwide standards including NIOSH, CE 0194, and exceeds AS/NZS standards.

A full range of blast capes and jackets are available that securely attach inside the blast helmet to prevent abrasive ingress.

# **Operator Comfort**

With different size internal padding available to ensure complete comfort, the RPB® Nova 1® also has multi-layered sound deadening foam for hearing protection.

The Nova 1® is designed to reduce fatigue, ensuring the helmets weight is evenly distributed, balanced across the head and shoulders.

# **Optimise Productivity**

The "Fit & Save™" tear off lens system allows for uninterrupted blasting and quality vision throughout the blasting work shift, saving up to 45 minutes per day.

The built-in streamlined air system directs air to the breathe zone, preventing lens fogging and head chill, letting you blast for longer without interruption.



Lightweight pillow foam padding provides exceptional comfort



Flat multi screen visor



Individual tear off Page 8-14

Product Features			
	Nova 1®	Nova 2000®	Nova 3®
Lightweight, abrasive resistant, tough helmet shell			
"Fit and Save"™ Tear-off lens system			
Streamlined air system to prevent lens fogging and head chill			
Outer, intermediate (optional), and inner lenses			
Replaceable sound deadening foam padding			
Prevents abrasive and dust ingress			
Low Flow Indicator	•		
Large curved window for optimum visibility			
Even weight distribution to prevent fatigue			
One click inner lens replacement			
Ratchet adjustable padding system for custom fit			
Optional communication system	Nova 1 <sup>®</sup> Talk <sup>™</sup>	Nova 2000® Talk™	Nova 3® Talk™
Optional helmet light system			L4 <sup>™</sup> Light System

Part Numbers	
Part Number	Description
MT10150	Nova 1® Blast Helmet (CE) Supplied complete with Constant Flow Valve, Nylon Respirator Cape & Breathing Tube
MT10150-2	Nova 1® Blast Helmet - Nylon Cape, Breathing Tube - Above with Gauze and Glass Kit

#### C40™ Climate Control



The RPB® C40™ Climate Control Device can heat and cool your supplied air as desired. With the slide of a lever, operators can switch from heating to cooling effortlessly, ensuring optimal levels of comfort.

Part Numbers		
Part Number	Description	
MT03502	C40™ Climate Control Device - (CE) For Global Market	

#### **Hot & Cold Air Tube Assemblies**



Part Numbers		
Part Number	Description	
MT400001CE	Cold Air Tube Assembly (CE) - For Global Market	
MT400020CE	Hot Air Tube Assembly (CE) - For Global Market	

#### Nova 1<sup>®</sup> Flow Control Valve & Breathing Tube



Nova 1® Flow Control Valve

The RPB® Nova 1® Flow Control Valve with belt connects the breathe air supply from the air filter to the breathing tube of the Nova 1® helmet.

Part Numbers	Part Numbers	
Part Number	Description	
MT2016CE	Flow Control Valve - Global Market	
MT2021B	Nova 1 <sup>®</sup> Breathing Tube	
MT3729	Nova 1® Air Inlet Kit	
MT2022	Flow Control Valve Belt complete with Buckles	

#### Nova 1<sup>®</sup> Hygiene Kits



Nova 1® Hygiene Kit

The RPB® Nova 1® hygiene kits are available in a range of sizes and include a new headliner, neck pad, side padding, side padding covers and two alcohol pads to refresh your helmet.

Part Numbers	s	
Part Number	Description	
MT200910SH	Nova 1 <sup>®</sup> Hygiene Kit - Small	
MT200910	Nova 1 <sup>®</sup> Hygiene Kit - Medium	
MT200910LH	Nova 1 <sup>®</sup> Hygiene Kit - Large	

#### Nova 1<sup>®</sup> Talk™

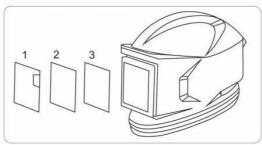


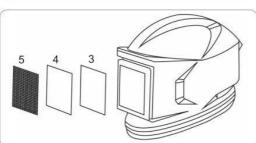
Nova 1<sup>®</sup> Talk™

The RPB® Nova Talk $^{\text{TM}}$  is a wireless communication system designed to build upon the safety and productivity enhancing features of the RPB® Nova 1®. It is ideal for crew on tanks, in shipyards, water towers and areas that are difficult to access.

Part Number	'S	
Part Number	Description	
MT09900	Nova 1 <sup>®</sup> Talk <sup>™</sup> - In-Helmet Communication Upgrade Kit	
MT09930	Motorola Connection Cable for Two Pin Radios	
MT09931	Motorola Connection Cable for Multi Pin Radios	
MT09932	Motorola Connection Cable for Multi Pin Radios	
MT09933	Kenwood Connection Cable for Two Pin Radios	
MT09934	Motorola Connection Cable for Multi Pin Radios	
MT09935	Motorola Connection Cable for Single Pin Radios	
MT09936	Kenwood Connection Cable for Multi Pin Radios	
MT09937	Motorola Connection Cable (x10 connector)	
MT09938	Nova Talk <sup>™</sup> cable for VX-261 Radio	
MT09939	Nova Talk <sup>™</sup> cable for Apex Icom IC-F4002 Radio	

## **2 Lens System Options**





Provided with a "Fit and SaveTM" tear off lens system to protect the intermediate lens from scratches and damage. In the occasion of an accident and the glass lens smashes, there is an inner lens to protect your eyes from the glass.

ID	Part Number	Description	
1		Nova 1® Tear-off Lens (x50)	
2		Nova 1® Outer Lens (x50)	
3	MT02810	Nova 1® Inner Lens (x10)	
	MT02810T	Nova 1® Tinted Inner Lens (x10)	

Pack 2 - Glass & Mesh			_
ID	Part Number	Description	
4, 5	MT30041	Nova 1® Glass Lens (x3) and Gauze	
5	-	Replacement Glass Lens (x3)	
4		Replacement Gauze	

## Nova 1<sup>®</sup> Capes and Jackets

Available in a choice of materials and sizes, the RPB® Nova 1® protective capes and jackets can be securely attached to the helmet, stopping abrasives and dust entering.

Part Numbers		_
Part Number	Description	
MT3751	Nova 1® Extra Length Nylon Respirator Cape	
MT3753	Nova 1® Extra Length Leather Respirator Cape	
MT3750	Nova 1® Nylon Respirator Cape	
MT3752	Nova 1® Leather Respirator Cape	
MT3754	Nova 1® Blast Jacket - XL	
MT3755	Nova 1® Blast Jacket - XXL	
MT3759	Nova 1® Cape Cover Band	



Nylon Respirator Cape



Nylon Respirator Jacket

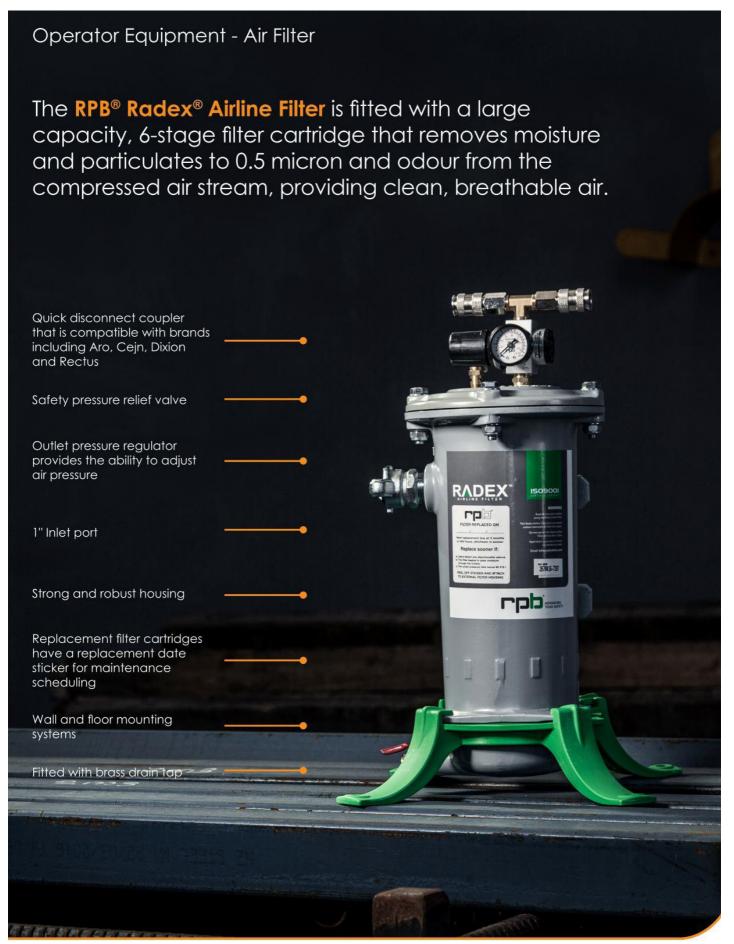
#### Nova 1® Blast Helmet Spare Parts

Part Numbers	
Part Number	Description
MT1123	Nova 1® Helmet Liner Support Kit
MT1124	Nova 1® Visor Kit
MT1125	Nova 1 <sup>®</sup> Visor Strap (x5)
MT2009SH	Nova 1® Helmet Liner - Small
MT2009	Nova 1 <sup>®</sup> Helmet Liner - Medium
MT2009LH	Nova 1® Helmet Liner - Large
MT2010SH	Nova 1 <sup>®</sup> Side Wings - Small (pair)
MT2010	Nova 1 <sup>®</sup> Side Wings - Medium (pair)
MT2010LH	Nova 1 <sup>®</sup> Side Wings - Large (pair)
MT2010GSH	Nova 1® Side Wings - Small (pair, for wearers with glasses)
MT2010G	Nova 1 <sup>®</sup> Side Wings - Medium (pair, for wearers with glasses)
MT2010GLH	Nova 1 <sup>®</sup> Side Wings - Large (pair, for wearers with glasses)
MT03102	Constant Flow Valve Assembly - CE
MT02807	Nova 1® Window Gasket



Nova 1® Helmet

For a full range of personal protection equipment, see page 8-20



## **High Performance**

The RPB® Radex® Airline Filter exceeds industry Standards, so you can be assured that operators will not suffer the consequence of breathing contaminated air. The large capacity 6-stage filter cartridge removes moisture and particulates to 0.5 microns (0.02mil) and odour from the compressed air stream providing clean and breathable air for your operator's safety.

## **Air Pressure Control**

Both the standard filter for one person operation and the high flow filter for up to five operators have an outlet pressure regulator allowing you to adjust the air pressure.

## **Auto Drain Valve**

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 in one

With a unique twist and lock mounting system, it's never been easier to mount your filter to the floor or wall. No bolts are required, simply place in position and turn the lock.

Part Numbers	
Part Number	Description
MT04900	Radex® - Airline Filter Complete - Suitable up to 10.3bar 150psi
MT04906	Radex® - High Flow Airline Filter Complete - 6 Outlet System



6 Outlet System Airline Filter



Radex® Auto Drain Valve



Wall and Floor Mounting System

#### Radex® Replacement Filter Cartridge

Part Numbers		-
Part Number	Description	
MTAPF3100	Radex® Replacement Filter Cartridge	



#### Radex® Replacement Filters

Part Number	s	
Part Number	Description	
MT04925	Radex® Micro Mist Filter 1/2" (13mm)	
MT04927	Radex® Mainline Pre-filter	



#### **Air Filter Connection Plate**

Part Number	S
Part Number	Description
MT30113	Air Filter Connection Plate for Elcometer Abrasive Blast Machine
MT29486	Air Hose with Couplings to connect Air Manifold to Breathe Air Filter



## Radex® Airline Filter Parts



Radex® Airline Filter

Spare Parts	
Part Number	Description
MT04911	Radex® 1/4" (6mm) Coupler 3/6" (9.5mm) FNPT
MT04912	Radex® 3/6" (9.5mm) Brass Tee
MT04913	Radex® 3/6" (9.5mm) Brass Cap
MT04914	Radex® Pressure Regulator
MT04915	Radex® Pressure Gauge
MT04916	Radex® Pressure Relief Valve
MT04917	Radex® 3/6" (9.5mm) Brass Nipple
MT04918	Radex® Filter Lid
MT04919	Radex® O-Ring (x2)
MT04920	Radex® Bolt, Nut, Washer (x4)
MT04922	Radex® Brass Drain Tap
MT04923	Radex® Base Mount
MT04924	Radex® Auto Drain Unit
MT04926	Radex® 1" (25mm) to ½" (13mm) Reducing Nipple
MT04928	Radex® Brass Elbow
MT04929	Radex® Filter Element (for MT04927)
MT04930	Radex® Micro Mist Filter Element (for MT04925)
MT04931	Radex® Auto Drain Assembly (for MT04924)
MT04960	Radex® Six Outlet Upgrade Kit
MT04961	Radex® Six Outlet Filter Lid
MT04962	Radex® Super High Flow Regulator
MT04964	Radex® 1/4" (6mm) Coupler 3/8" (9.5mm) MNPT (to fit MT04965 Manifold)
MT04965	Radex® 6 Outlet Manifold
MT04966	Radex® 1" (25mm) NPT Hex Connector

# **Breathe Air Hose and Coupling**



Blue Breathe Air Hose

Part Number	S
Part Number	Description
MT30265	1" (25mm) NPT to 3/4" (19mm) BSP Reducing Bush Packed Assembly
MT30266	3/4" (19mm) 2 Claw with 1" (25mm) NPT to 3/4" (19mm) BSP Reducing Bush Packed Assembly
MT29494-2	3/8" (9.5mm) Blue Breathe Air Hose, 50m (164ft)
MT29493-11	%" (9.5mm) Blue Breathe Air Hose, 11m (36ft), Quick Release Couplings
MT29493-21	3/6" (9.5mm) Blue Breathe Air Hose, 21m (68ft), Quick Release Couplings
MT30204-11	3/6" (9.5mm) Blue Breathe Air Hose, 11m (36ft) Screw Connectors
MT30204-21	3/4" (9.5mm) Blue Breathe Air Hose, 21m (68ft) Screw Connectors
MT29494-1	1/4" (6mm) Blue Breathe Air Hose, 50m (164ft)
MT29581-11	1/4" (6mm) Blue Breathe Air Hose, 11m (36ft), Screw Connectors
MT29581-21	1/4" (6mm) Blue Breathe Air Hose, 21m (68ft), Screw Connectors
MT29547-1	1/4" (6mm) Quick Release Coupling Series Male BSPP
MT29547-2	3/6" (9.5mm) Quick Release Coupling Series Male BSPP
MT29547-3	1/4" (6mm) Quick Release Plug Series 26 KA Male BSP
MT29547-4	3/6" (9.5mm) Quick Release Plug Series 26 KA Male BSP
MT29547-5	1/4" (6mm) Quick Release Coupling Series 26 KA Hose Tail Female
MT29547-6	3/6" (9.5mm) Quick Release Coupling Series 26 KA Hose Tail Female
MT29547-7	1/4" (6mm) Quick Release Plug Series 26 KA Hose Tail Female
MT29547-8	3/8" (9.5mm) Quick Release Plug Series 26 KA Hose Tail Female
MT30208	3/8" (9.5mm) Nipple Male / Male BSP (for breathe air hose)
MT30209	1/4" (6mm) Nipple Male / Male BSP (for breathe air hose)
MT30210	3/8" (9.5mm) to 1/4" (6mm) Reducing Nipple Male / Male BSP (for breathe air hose

The Blue Breathe Air Hose should only be used for filtered air and must be connected to the outlet of the air filter only



# **Real Time Monitoring**

Monitor up to 4 gases simultaneously from the illuminated display screen, complete with a built-in safety power reserve, ensuring the unit will run for 18 hours in the event that power is cut to the unit. The RPB® GX4® intelligent gas monitor tracks and logs the quality of the supplied air.



# **Advanced Alarm System**

Fitted with a 103dBA staccato alarm. External alarms can be connected for remote operators.

## 3 Sensors Available For Added Protection

In addition to the carbon monoxide (CO) sensor, hydrogen sulphide ( $H_2S$ ) and oxygen ( $O_2$ ) sensors are now available. Many gases like carbon monoxide (CO) are not easy to detect and although low levels of exposure may not be immediately fatal, ongoing contact with the gas at low levels can have an accumulative effect causing health concerns.



Part Numbers	
Part Number	Description
MT08400CE	GX4® Gas Monitor; UK/EU Plugs (No Sensors)
MT0842001	GX4® Sensor Cartridge; Carbon Monoxide (CO) - 10ppm¹
MT0842002	GX4 <sup>®</sup> Sensor Cartridge; Carbon Monoxide (CO) - 5ppm <sup>2</sup>
MT0842003	GX4® Sensor Cartridge; Hydrogen Sulfide (H2S) - 10ppm
MT0842004	GX4® Sensor Cartridge; Oxygen (O2) - 19.5-23%
MT08231	GX4® Aluminium Wall Bracket
MT08434	GX4® Auxiliary Cable 15m (50ft) with Bare Ends
MT08435	GX4® Auxiliary Strobe Light with 15m (50ft) Cable
MT08436	GX4® Auxiliary Strobe & Audible Alarm Tower; 15m (50ft) Cable
MT08422	GX4® Replacement Sensor Manifold Tube

<sup>1</sup> CGA G-7.1-2011 Grade D & AS-NZS 1715:2009



# **Heavy Duty Leather Suit**

The heavy duty Elcometer leather suits have zip and velcro closure and velcro straps around the wrists and ankles to keep the dust and abrasive out.

Part Numbers			
Part Number	Size	Chest	Height
MT29167-S	Small	84-92cm (33-36")	164-170cm (5'5"-5'7")
MT29167-M	Medium	92-100cm (36-38")	170-176cm (5'7"-5'9")
MT29167-L	Large	100-108cm (38-42")	176-182cm (5'9"-6'0")
MT29167-XL	X-Large	108-116cm (42-45")	182-188cm (6'0"-6'2")
MT29167-2XL	XX-Large	116-124cm (45-49")	188-194cm (6'2"-6'6")
MT29167-3XL	XXX-Large	124-132cm (49-52")	194-200cm (6'6"-6'8")



## **Lightweight Suit**

Elcometer lightweight suits have zip and velcro closures and velcro straps around the wrists and ankles to keep the dust and abrasive out. Ideal for warm climates.

Part Numbers			
Part Number	Size	Chest	Height
MT29168-S	Small	84-92cm (33-36")	164-170cm (5'5"-5'7")
MT29168-M	Medium	92-100cm (36-38")	170-176cm (5'7"-5'9")
MT29168-L	Large	100-108cm (38-42")	176-182cm (5'9"-6'0")
MT29168-XL	X-Large	108-116cm (42-45")	182-188cm (6'0"-6'2")
MT29168-2XL	XX-Large	116-124cm (45-49")	188-194cm (6'2"-6'6")
MT29168-3XL	XXX-Large	124-132cm (49-52")	194-200cm (6'6"-6'8")



## **Leather Gloves**

Part Numbers		
Part Number	Description	
MT29219-1	Leather Gloves (x1)	
MT29219-2	Leather Gloves (x6)	



#### Ear Plugs



Comfortable and noise resistant; the Elcometer Ear Plugs protect the operator's ears and hearing. Designed to fit the contours of any size and shape ears.

Part Numbers		
Part Numbers	Description	
MT29410	Ear Plugs, 1 pair, Noise Reduction Rating: 27dB	
MT28777	Ear Plugs, 25 pairs, Noise Reduction Rating: 27dB	

#### **Banded Style Ear Buds**



Elcometer Banded Style Ear Buds are designed for comfort and to protect the operator's hearing; the flexible band fits under the chin or behind the head. The band is manufactured to be able to be used in conjunction with the Nova Helmets. The ear buds are also reusable, making them cost effective.

Part Numbers		
Part Numbers	Description	
MT29045	Banded Style Ear Buds (x1), Noise Reduction Rating: 27dB	
MT28776	Banded Style Ear Buds (x10), Noise Reduction Rating: 27dB	

## **LED Helmet Lamp - Universal**



Designed for professional use, the LED Helmet Lamp includes helmet clips so it can be easily mounted for use at work. A front switch lets you move between the three light options with one hand; power, low power and blink.

Part Numbers		
Part Numbers	Description	
MT29406	LED Helmet Lamp complete with Lithium-Ion Battery Pack, Helmet Clip, Helmet Mount, USB Cable & Pouch	

## L4™ Light - Integrated Helmet Lamp for Nova 3®



Ideal for blasters in tanks and other confined spaces where light is scarce. The light mounts securely to the top of the Nova 3® Respirator, providing light wherever the operator looks.

Part Numbers			
Part Number	Description		
MT09520G	L4™ Helmet Blast Light Assembly - Global Market		
MT09512	L4™ Light with Strap and Mount (Includes MT09520)		
MT09520	L4™ Light Mounting Clip		
MT09522	L4 <sup>™</sup> Light Outer Lens (x10)		
MT09525	L4™ Light Battery Charger		
MT09021UK	L4™ Light Power Cable - UK		
MT09021EU	L4™ Light Power Cable - EU		
MT09021AU	L4™ Light Power Cable - AU		
MT095322	L4™ Light Battery Pack		

# Blast Helmet Balaclava

Part Numbers		
Part Number	Description	
MT29239	Blast Helmet Balaclava	



## **Elcometer Black Polo Shirt**

Part Numbers				
Part Number	Size	Chest	Height	
MT29173-S	Small	84-92cm (33-36")	164-170cm (5'5"-5'7")	
MT29173-M	Medium	92-100cm (36-38")	170-176cm (5'7"-5'9")	
MT29173-L	Large	100-108cm (38-42")	176-182cm (5'9"-6'0")	
MT29173-XL	X-Large	108-116cm (42-45")	182-188cm (6'0-"6'2")	
MT29173-2XL	XX-Large	116-124cm (45-49")	188-194cm (6'2"-6'6")	
MT29173-3XL	XXX-Large	124-132cm (49-52")	194-200cm (6'6"-6'8")	



# **Elcometer Black Soft Shell Jacket**

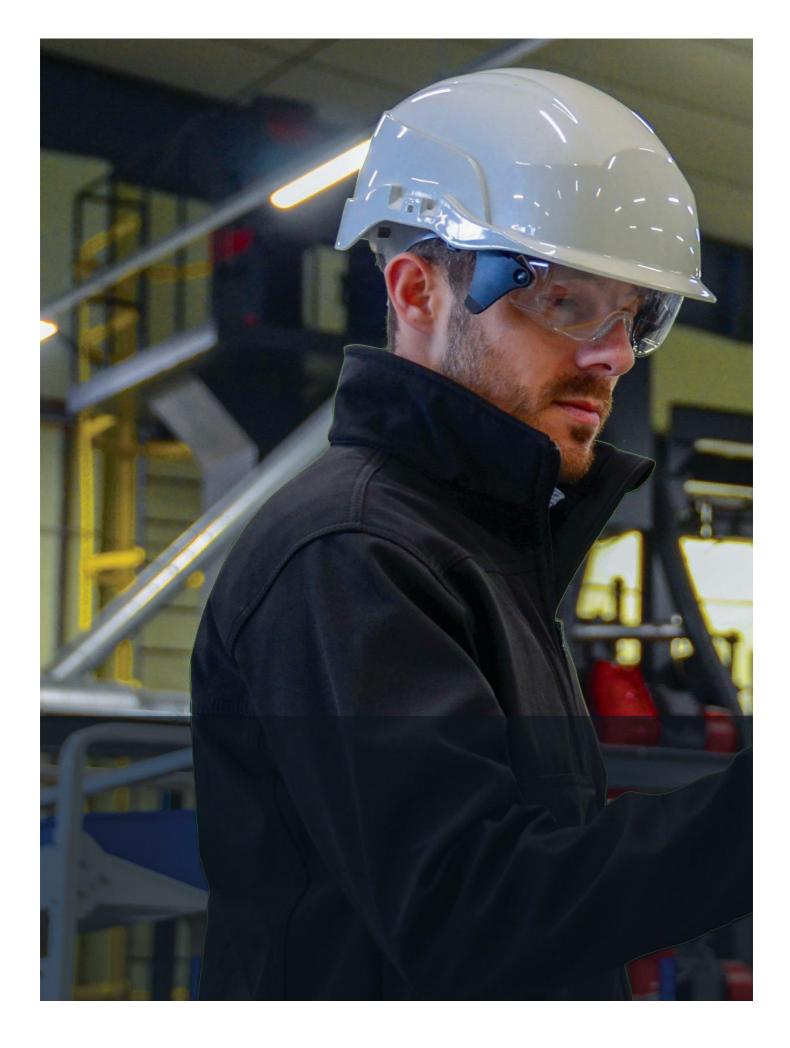
Part Numbers				
Part Number	Size	Chest	Height	
MT29166-S	Small	84-92cm (33-36")	164-170cm (5'5"-5'7")	
MT29166-M	Medium	92-100cm (36-38")	170-176cm (5'7"-5'9")	
MT29166-L	Large	100-108cm (38-42")	176-182cm (5'9"-6'0")	
MT29166-XL	X-Large	108-116cm (42-45")	182-188cm (6'0"-6'2")	
MT29166-2XL	XX-Large	116-124cm (45-49")	188-194cm (6'2"-6'6")	
MT29166-3XL	XXX-Large	124-132cm (49-52")	194-200cm (6'6"-6'8")	



# Elcometer Baseball Cap

Part Number	s .	_
Part Number	Description	
MT29158	Baseball Cap - One Size	







#### **Elcometer 102**

#### **Needle Pressure Gauge**



The Elcometer 102 Needle Pressure Gauge is designed to measure air pressure up to 20bar (300psi) in blast and air hoses. Pressure drop is responsible for decreased production rates, increased abrasive consumption and reduced anchor profile in abrasive blasting systems.

Technical Specif	cation				
Part Number	Description				
E102-A	Elcometer 102 Needle Pressure Gauge				
T10229425	Replacement Needle (Pack of 2)				
Measuring Range	0 - 20bar (0 - 300psi)				
Dimensions	133 x 58 x 28.5mm (5.24 x 2.28 x 1.12") Weight 110g (3.88oz)				
Packing List	Elcometer 102 Needle Pressure Gauge, pressure gauge guard, spare hypodermic needle protective pouch and operating instructions				

#### Elcometer 103

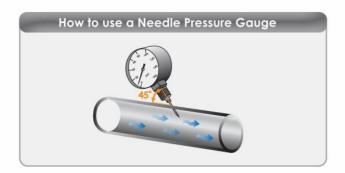
## **Blast Nozzle Gauge**



The Elcometer 103 Blast Nozzle Gauge measures the orifice size of an abrasive blasting nozzle. This gauge is used to determine the nozzle orifice wear which leads to low nozzle pressure and decreased efficiency in its performance. Nozzle orifice wear results in decreased productivity and increased abrasive media consumption.

To ensure your nozzle provides continuous high production, as a general rule, replace your nozzle when the orifice wears by 1 nozzle size. For more information on nozzle sizes, see page 6-3.

Technical Specif	cation				
Part Number	Description				
E103-A	Elcometer 103 Blast Nozzle Gauge				
T10329146	Replacement Wax/Grease Pencils (Pack of 12)				
Measuring Range	6.4 - 16mm, ½ - 5/8" (81 - 548cfm)				
Dimensions	200 x 19mm (7.87 x 0.75") Weight 150g (5.29oz)				
Packing List	Elcometer 103 Blast Nozzle Gauge, wai instructions	ax/grease pencil (ins	side gauge), protective pouch and operating		





## **Digital Surface Profile Gauge**

Elcometer 224

The Elcometer 224 provides the latest in surface profile measuring technology for measuring on flat or curved surfaces. Fast, accurate and available with or without memory and Bluetooth®.



# Blast Inspection & Test Equipment

#### Elcometer 224

#### **Digital Surface Profile Gauge**

#### User Friendly

- Large buttons ideal for gloved hands
- Easy to use menus in multiple languages
- High contrast colour LCD with auto rotate
- High and low reading limit indicators
- Factory calibrated for immediate use

#### Accurate

- Can be used in accordance with National and International Standards
- Temperature stable measurements
- Statistics are calculated and displayed in real time
- Live and batch readings graph format for instant analysis

#### Reliable

- Repeatable and reproducible measurements
- 2 year gauge warranty\*
- Supplied with fully traceable Test Certificates
- Batch & individual readings are date and time stamped

#### Tough

- Sealed, heavy duty and impact resistant
- Dust and waterproof equivalent to IP64
- Suitable for use in harsh environments
- Scratch and solvent resistant display
- Durable gauge and probe construction

#### Efficient

- Fast reading rate of 50+ per minute
- Integral and separate probe versions to suit your application
- Alpha numeric batch identification
- Compatible with ElcoMaster® software and ElcoMaster® Mobile App
- Powersave Mode with tap awake

#### Powerful

- User replaceable tough tungsten carbide tip can be used for up to 20,000 readings
- USB and Bluetooth® data output to iPhone\* or Android™ devices
- Measures profiles up to 500µm (20mils)



Integral or separate probes measure profiles up to 500µm (20mils)



Ergonomic design for comfort during continuous use



2.4" colour screen provides enhanced reading visibility at all angles

<sup>\*</sup> The Elcometer 224 is supplied with a 1 year warranty against manufacturing defects. The warranty can be extended free of charge to 2 years within 60 days of purchase via www.elcometer.com. Elcometer 224 probes are covered by a 1 year warranty.

# Digital Surface Profile Gauge

Elcometer 224

Product Features	■ Standard	□ Optional
	Model B	Model T
Fast, accurate reading rate; 50+ readings per minute <sup>1</sup>	•	
Repeatable & reproducible measurements		
Easy to use menu structure; in 30+ languages		2007 2007
Tough, impact, waterproof & dust resistant; equivalent to IP64		
Bright colour screen; with permanent back light		
Scratch & solvent resistant display; 2.4" (6cm) TFT		
Large positive feedback buttons		
Flat & convex surfaces <sup>2</sup>		
USB power supply; via PC		
Elcometer test certificate		
2 year gauge warranty <sup>3</sup>		
Automatic rotating display; 0°, 90°, 180° & 270°	•	
Ambient light sensor; with adjustable auto brightness	•	-
Emergency Light Mode	-	
Gauge software updates <sup>4</sup> ; via ElcoMaster® software	-	**
Data output		
USB; to computer	-	-
Bluetooth®: to computer, Android™ & iOS⁵ devices	_	-
On screen statistics		-
Number of readings, $\eta$ ; Mean (average), $\overline{x}$ ; Standard deviation, $\sigma$ ; Highest reading, $Hi$ ; Lowest reading, $Lo$ ; Coefficient of variation, $CV\%$		
High & low limits; definable audible & visual alarms		
Number above high limit;		
Number below low limit;		
ElcoMaster® software & USB cable		
Date and time stamp for each reading		2000 Alexandra
Replaceable screen protectors		-
Protective case	-	-
Plastic transit case	п	
Measurement range	0-500μm (20mils)	0-500µm (20mils)
On-screen calibration instructions; in 30+ languages	•	- COOPIII (2011110)
Number of batches		2,500
Gauge memory; number of readings	Last 5	150,000
Delete last reading	<b>■</b> 6	100,000
Limits; user definable audible & visual pass/fail warnings		- 1
Gauge (g) or gauge & batch specific (gb) limits		gb
Batch types; normal, counted average		95
Review, clear & delete batches		
Copy batches and calibration settings		- :
Alpha-numeric batch names; user definable on the gauge		DATE:
Fixed Batch Size Mode; with batch linking		
Trend graph; last 20 readings		- :
Review batch graph		- :

<sup>&</sup>lt;sup>1</sup> Up to 25 readings per minute for the convex probe

<sup>2</sup> Applicable Patents: GB2505193, US9261345

<sup>3</sup> The gauge warranty is extendable within 60 days from date of purchase, free of charge, to 2 years via www.elcometer.com. Elcometer 224 probes are covered by a 1 year warranty

<sup>4</sup> Internet connection required

<sup>5</sup> Visit www.elcometer.com/sdk to find out how to integrate Elcometer's products to your Android or iOS app.

<sup>6</sup> Up to the last 5 readings can be deleted

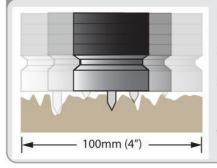
# Blast Inspection & Test Equipment

#### Elcometer 224 **Digital Surface Profile Gauge**

Model Options			
Part Number		Description	Certificate
Integral Gauge	Separate Gaug	le <sup>1</sup>	
E224C-BI	E224C-BS	Elcometer 224 Model B Digital Surface Profile Gauge	•
E224C-TI	E224C-TS	Elcometer 224 Model T Digital Surface Profile Gauge	•

Display Information	2.4" (6cm) QVGA colour	TFT display, 320 x 240 pixel	ls	
Battery Type	2 x AA batteries, recharge	eable batteries can also be	used	
Battery Life	Approximately 24 hours of	f continuous use at 1 readir	ng per second <sup>2</sup>	
Minimum Headroom	Integral:	185mm (7.3")		
	Separate:	See page 9-7		
Gauge Dimensions	Integral:	168 x 73 x 37mm (5.61 x 2.87 x 1.46")		
$(h \times w \times d)$	Separate:	141 x 73 x 37mm (5.55 x 2.87 x 1.46")		
Gauge Weight	Integral:	218g (7.69oz)		
(including batteries)	Separate:	161g (5.68oz)		
Measurement Range	0-500µm (0-20mils)	(A)		
Probe Tip	Tungsten carbide tip 60°	angle; Tip Radius: 50µm (2	mil)	
Operating Temperature	-10 to 50°C (14 to 122°F)	Storage temperature	-10 to 60°C (14 to 140°F)	
Accuracy & Resolution	Accuracy <sup>3</sup> : ±5% or ±5μm (±0.2mil); Resolution: 1μm (0.1mil)			
Packing List <sup>4</sup>	case (T), protective case	e, screen protector, probe i	foils <sup>4</sup> , wrist harness, plastic trans protection cap <sup>4</sup> , 2 x AA batterie & ElcoMaster® software (T)	

#### **Measuring Surface Profile**



- 1. Ensure probe is 90° to substrate to ensure accurate readings and calibrate the gauge on a glass zero tile.
- To take one spot measurement, take either 5 or 10 readings within a 100mm (4") diameter area.
- 3. The measurement displayed is either the average peak-to-valley height or the maximum reading of the 5 or 10 readings, depending on which measurement mode you have selected.
- 4. To establish the average surface profile of an area, record 5 spot measurements for each 1m x 1m (3ft x 3ft) area.

- <sup>1</sup> Probes are supplied separately, see page 9-7 for details
- Test Certificate supplied as standard.
   Using default settings & lithium batteries, alkaline or rechargeable batteries may differ.
  - 3 Whichever is the greater
- <sup>4</sup> For separate gauges, the test foils, glass zero tile and probe protection cap are supplied with the separate probe.

## **Digital Surface Profile Gauge**

#### Elcometer 224



Surface Profile Probes for Flat Surfaces
Supplied with either standard cables or
armoured metal reinforced heavy duty cables,
Elcometer surface profile probes are supplied
with a glass zero plate, calibration test foils;
nominal values 125µm (5.0mils) & 508µm
(20mils) and an Elcometer test certificate.



Technical Specification				_
Range: 0-500µm (0-20mils)	Resolution:	1μm (0.1mil)	Accuracy: ±5% or ±5	um (±0.2mil)
Probe Design	Part Number	Minimum Headroom	Minimum Sample Diameter	Certificate
Flat Surface: Standard	T224C500US	125mm (4.92")	25mm (1.0")	•
Flat Surface: Armoured	T224C500UARM	165mm (6.50")	25mm (1.0")	



#### **Surface Profile Probes for Pipelines**

Supplied with either standard cables or armoured metal reinforced heavy duty cables, Elcometer convex surface profile probes are supplied with a glass zero tile, calibration test foils (nominal values 125µm (5.0mils) & 508µm (20mils)) and an Elcometer test certificate.



Technical Specification				
Range: 0-500µm (0-20mils)	Resolution: 1	μm (0.1mil)	Accuracy: ±5% or ±5	δμm (±0.2mil)
Probe Design	Part Number	Minimum Headroom	Minimum Pipe Diameter	Certificate
Convex Surface: Standard*	T224C500UX	135mm (5.31")	75mm (3.0")	•)
Convex Surface: Armoured*	T224C500UXARM	175mm (6.89")	75mm (3.0")	•

Accessories		
Part Number		Description
Integral Gauge	Separate Gauge	
T22419793	T22419793	Probe Tip Protection Cap
T22420072	T22420072	Glass Zero Tile with Wallet
T22421882C	T22421882C	Certified Calibration Test Kit: 125µm & 500µm (5 & 20mils) Calibration Foils, Glass Zero Tile & Calibration Certificate
T99921325	T99921325	USB Cable
T99924797	T99924797	USB Bluetooth® Adaptor (V2.0+) - for PC's without Bluetooth®
T99922341	T99922341	Self Adhesive Screen Protectors (x10)
T22420053	T22420053	Replacement Tip (x2) with Fixing Tool
T22420095	T22420095	Replacement Tip (x5)
( <u>*</u>	T45622371	Benchtop Inspection Stand

Test Certificate supplied as standard.

<sup>\*</sup> Applicable Patents: GB2505193, US9261345

## Elcometer 123

#### Surface Profile Gauge



The Elcometer 123 Surface Profile Gauge is an easy to use analogue gauge which measures the peak-to-valley height of a blast cleaned surface in a similar way to the Elcometer 224.

#### STANDARDS:

ASTM D 4417-B, SANS 5772, SSPC PA 17, US Navy NSI 009-32, US Navy PPI 63101-000

Part Number	Description			Certificate
E123AM-	Elcometer 123 Surface Profile Gauge, Metric			
Range	0 - 1000μm (0 - 40mils)	Scale	2µm (0.1mil)	
Dimensions	105 x 55 x 25mm (4.1 x 2.2 x 1")	Weight	335g (8oz)	
Packing List	Elcometer 123 Surface Profile Gauge, glass slide,		9, /	instructions

## Elcometer 124

#### **Thickness Gauge**



The Elcometer 124 Thickness Gauge is used to measure the peak-to-valley height of a surface profile moulded in the Elcometer 122 Testex® Replica Tape (page 9-9).

- Metric and Imperial versions available
- · Quick and easy to use
- · Anvil pressure as required in the Standards

#### STANDARDS:

ASTM D 4417-C, ISO 8503-5, NACE RP 0287, SSPC PA 17, US Navy NSI 009-32, US Navy PPI 63101-000

Technical Sp	pecification						
Part Number	Description	Range	Dimensions	Weight	Scale Resolution	Certificate	
E1243M	Elcometer 124 Metric	5mm	120 x 95 x 25mm	254g	2µm	0	
E1243E	Elcometer 124 Imperial	0.25"	4.7 x 3.7 x 1.0"	9oz	0.1mil	0	

Optional Calibration Certificate available.

Replica Tape Elcometer 122

Elcometer 122 Testex® Tape consists of foam with a non-compressible backing. The foam side is rubbed into the surface providing a permanent mould of the peak-to-valley profile, which can then be measured using the Elcometer 124 Thickness Gauge (page 9-8).

Elcometer 122 Testex® Tape is available in four profile ranges. It is important that the tape grade chosen is reflective of the profile being measured.

- For profiles between 12 & 25µm (0.5 & 1.0mils): Coarse Minus Tape
- For profiles between 20 & 38µm (0.8 & 1.5mils): Coarse Tape
- For profiles between 38 & 64µm (1.5 & 2.5mils): Average of Coarse and
- For profiles between 64 & 115µm (2.5 & 4.5mils): X-Coarse Tape
- For profiles greater than 115µm (4.5mils): X-Coarse Plus Tape

There are 50 tests in each roll.



#### STANDARDS:

ASTM D 4417-C, BS 7079-C5, ISO 8503-5, NACE RP0287 SSPC PA 17, US Navy NSI 009-32, US Navy PPI 63101-000

Technical Specification  Description	Profile	Range		Part I	Number	
Boomphon	Metric	Imperial	1 Roll	Pack of 10	Pack of 50	Pack of 100
Elcometer 122 Coarse Minus	12 - 25µm	0.5 - 1.0mils	E122A1	E122A10	E122A50	E122A100
Elcometer 122 Coarse	20 - 64µm	0.8 - 2.5mils	E122B1	E122B10	E122B50	E122B100
Elcometer 122 X-Coarse	38 - 115µm	1.5 - 4.5mils	E122C1	E122C10	E122C50	E122C100
Elcometer 122 X-Coarse Plus	116 - 127µm	4.6 - 5.0mils	E122F1	E122F10	E122F50	E122F100

## Accessories

T12222498 Swizzle Sticks (x5)

#### How to take a reading using the Testex® Replica Tape



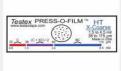
1.Tear off one section of retain the back if required for future use.



2. Stick the tape on to the the tape from the roll, peel test surface, and rub the off the backing tape and central portion using the swizzle stick provided, or the end of a pen, pencil or similar rounded object until dark spots appear. This gives a surface replica.



3. Using a micrometer such as the Elcometer 124 Thickness Gauge, measure the thickness of the central portion of the tape replica and subtract 50µm (2mils) from the reading. This result is the peak-to-valley profile height. Write the value on the tape.



4. If the value falls within coarse tape (38-64µm) then repeat the test as shown in step 2 using the extra coarse tape and then average the two values.



5. If the tape is required the purple band on the for future reference, replace the backing tape to preserve the imprinted profile.

#### **Elcometer 125**

#### **Surface Comparators**



These extremely durable comparators allow the estimation of surface profile of either grit or shot blasted surfaces. Using the Elcometer 125 Surface Comparators as a reference the blasted profile can be compared to the four reference profile grades in each comparator. Profiles are recorded in microns.

There are 4 profile values per comparator.

#### STANDARDS:

AS 3894.5, ASTM D 4417-A, IMO MSC.215(82), IMO MSC.244(83), ISO 8503-1, ISO 8503-2, SSPC PA 17

Technical Specification		
Part Number	Description	Section Profiles
E1251	Elcometer Grit Surface Comparator	25, 60, 100, 150µm
E1252	Elcometer Shot Surface Comparator	25, 40, 70, 100μm

## Elcometer 127

#### **Keane-Tator Surface Comparators & Magnifier**



The Elcometer 127 range of Surface Comparators are available in sand, shot or grit surface profiles. Each comparator is supplied with 5 profile grades ranging from 0.5 - 5.5mils. Designed for use with the Elcometer 127 illuminated magnifier, each comparator has a hole in the centre allowing for clear visual comparisons to be made.

5 Profile Values per Comparator

#### STANDARDS:

AS 3894.5, ASTM D 4417-A, SSPC PA 17

Technical Specification		
Part Number	Description	Section Profiles
E1272	Elcometer 127 Sand Surface Comparator	0.5, 1, 2, 3, 4mils
E1273	Elcometer 127 Grit Surface Comparator	1.5, 2, 3, 4.5, 5.5mils
E1274	Elcometer 127 Shot Surface Comparator	2, 2.5, 3, 4, 5.5mils
E1271	Illuminated magnifier (x5) with integrated surface con	nparator holder

# **Rubert & Rugotest Surface Comparators**

# Elcometer 129

The Elcometer 129 Surface Comparators are available in two models:

- Elcometer 129 Rubert available in grit and shot versions
- Elcometer 129 Rugotest shot and grit profiles on the same block

Roughness is displayed in both "classes" and "roughness averages" for easier identification. Available in Metric only. Six roughness values per comparator.





Technical Specification		
Part Number	Description	Section Profiles
E1291	Elcometer 129/1 Rubert Grit Surface Comparator	0.4, 0.8, 1.6, 3.2, 6.3 & 12.5µm
E1292	Elcometer 129/2 Rubert Shot Surface Comparator	0.4, 0.8, 1.6, 3.2, 6.3 & 12.5µm
E1293	Elcometer 129/3 Rugotest Shot & Grit Surface Comparator	N6, N7, N8, N9, N10 & N11 equivalent to 0.8, 1.6, 3.2, 6.3, 12.5, & 25µm roughness averages respectively

Elcometer 130 SSP

Soluble Salt Profiler

The Elcometer 130 SSP Soluble Salt Profiler provides fast and accurate measurement of the level and density of soluble salts - over 4 times faster than other Bresle equivalent methods.



#### Soluble Salt Profiler

#### Elcometer 130 SSP

## Four Bresle equivalent readings in 2½ minutes

Each filter paper is the size of four Bresle patches - the Elcometer 130 Soluble Salt Profiler not only displays the individual reading, but also provides four Bresle equivalent readings in just over two minutes.



Large Single Reading

## Detailed analysis

In addition to soluble salt levels (cleanliness) or conductivity, the Elcometer 130 SSP carries out a detailed analysis of the test area - providing an accurate salt density profile map, pinpointing areas of high contamination outside user defined limits.



Four Bresle Patch Equivalent Readings

## Accurate in all environments

The Elcometer 130 SSP has automatic temperature compensation ensuring accuracy in all climatic conditions. Impure water can be offset for accurate and repeatable readings.



Pass/Fail to User Defined Limits

## Designed to last

Robust, durable & water resistant, the Elcometer 130 SSP is available with a 2 year manufacturer's warranty; giving you peace of mind.



2D Salt Density Map with High/Low Readings

## Generate instant reports with ElcoMaster®

The Elcometer 130 SSP wirelessly transmits readings, statistics and batches via Bluetooth® or via USB straight into an inspection application or into ElcoMaster® software, Elcometer's Mobile App, for instant report generation at your desk or, using your mobile, in the field.



3D Salt Density Profile & Peak Salt Concentration (Hi)

## Elcometer 130 SSP

#### Soluble Salt Profiler

# How to use the Elcometer 130 SSP Soluble Salt Profiler

#### Step 1



Wearing clean disposable gloves (supplied), fill a syringe with precisely 1.6ml of Pure Distilled Water.

## Step 2



Using tweezers, remove a filter paper from the pack and place it on the cleaned, non-labelled side of the magnetic disc supplied.

#### Step 3



Disperse the water from the syringe, evenly across the whole of the filter paper and remove any bubbles from under the paper.

#### Step 4



Place the magnetic disc, wetted face down, on to the area under test, pressing firmly into any contours or irregularities and start the 2 minute timer on the gauge.

#### Step 5



After two minutes, carefully remove the filter paper and magnetic disc from the test surface and place on to the measurement electrodes.

#### Step 6



As each filter paper remains on the surface for two minutes, multiple tests can be undertaken at the same time, reducing inspection times further.

#### Step 7



Close the lid, ensuring that the magnetic catch is fully engaged, the gauge will begin measuring.

#### Step 8



The reading will be displayed on screen in the chosen display mode.

#### Step 9



If required for further analysis, place the filter paper in a resealable bag (supplied).

# Soluble Salt Profiler Elcometer 130 SSP

Technical Specification		
		Model SSP
Repeatable & reproducible measurements		
Easy to use menu structure; in 30+ languages		■(
Tough, impact, waterproof & dust resistant; equivalent to IP64		
Bright colour screen; with permanent backlight		
Scratch & solvent resistant display; 2.4" (6cm) TFT		
2 year gauge warranty <sup>1</sup>		
USB power supply; via PC		
Calibration certificate		
Calibration Verification Mode (with optional certified calibration tile)		
Ambient light sensor; with adjustable auto brightness		
Emergency Light Mode		
Magnetic & tripod mounting points		
Data output, USB to PC & Bluetooth to PC, Android™ & iOS² devices		
On screen statistics		
Number of readings $(n)$ ; Mean/Average, $(\bar{x})$ ; Standard deviation $(\sigma)$ ; Highest reading/Peak salt concentration $(Hi;)$ Lowest reading $(Lo)$ ; Coefficient of variation $(CV\%)$ ; Number of readings above high limit $(\Delta n)$		
Gauge memory		
Number of individual reading sets; including salt density, pass/fail map & di	stribution graph	3,500
Number of batches		1,000
Measurement units & range	Vertical Bound	
Surface Cleanliness - Elcometer 130 Mode	0-50µg/cm²	0-500mg/m <sup>2</sup>
Surface Cleanliness - Bresle Equivalent Method Mode	0-15µg/cm <sup>2</sup>	0-150mg/m <sup>2</sup>
Conductivity	0-6000µS/cm	0-6mS/cm
	0-3000ppm	0-0.3% Salinity
Resolution	0.4 / 2	4 1 2
Surface Cleanliness	0.1µg/cm²	1mg/m²
Conductivity	1µS/cm	0.001mS/cm 0.0001% Salinity
Gauge Accuracy	1ppm	±1% of reading
Measurement mode		±170 Of readility
Surface Cleanliness		
Conductivity		i
Calibration Offset Mode		
Automatic temperature compensation		
ElcoMaster® software & USB cable		
Individual reading and profile map stored with time and date		
Plastic transit case		
Alpha-numeric batch names; user definable on the gauge		
Fixed Batch Size Mode; with batch linking		
Delete last reading		
Limits; (gauge & batch specific)		
Review, copy, clear & delete batches & calibration settings		
Trend graph; last 20 readings		
Batch review graph		
Analogue bar graph		- i

<sup>&</sup>lt;sup>1</sup> The Elcometer 130 SSP is supplied with a 1 year warranty against manufacturing defects. The warranty can be extended free of charge to 2 years within 60 days of purchase via www.elcometer.com. <sup>2</sup> Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

# Blast Inspection & Test Equipment

# Elcometer 130 SSP Soluble Salt Profiler

Technical Specifi	cation
Model	Description Certificat
E130-SP	Elcometer 130 Soluble Salt Profiler
E130-SPC	Elcometer 130 Certified Soluble Salt Profiler
Operating Range	5°C - 40°C (41°F - 104°F)
Power Supply	4 x AA batteries or via USB (rechargeable batteries can also be used)
Battery Life	Alkaline: Approximately 30 hours Lithium: Approximately 45 hours
Sample Time	2 minutes
Sampling Size	110mm (4.3") circle
Dimensions	250 x 145 x 50mm (9.8 x 5.7 x 1.9")
Weight	780g (1.72lb)
Standards	SSPC Guide 15 (Bresle Equivalent ISO 8502-9 Test Method), NSI 009-32
Packing List	Elcometer 130 Soluble Salt Profiler, 3 x magnetic discs, 100 x high purity test paper 250ml (8.5fl oz) pure distilled water, 20 x PVC storage bags, disposable gloves, sensor wipes, 3 x 3.0 (0.1fl oz) syringes, 2 x plastic tweezers, 4 x AA batteries, shoulder strap, plastic transit case, test certificate and operating instructions, USB cable, ElcoMaster® software

		Certificate
T13027115	Calibration Verification Tile	
T13025964	Magnetic Discs (x3)	
T13024091	3.0ml / 0.1fl oz Syringe (x3)	
T13024093	Self Seal Polythene Bags (x20)	
T99911344	Pure Distilled Water - 250ml (8.5fl oz) Bottle with 3ml syringe	
T13027596	Pure Distilled Water - 1000ml (33.8fl oz) Bottle with 3ml syringe	
T13024094	High Purity Test Papers (x100)	
T13024092	Disposable Vinyl Gloves (x20)	
T13024098	Plastic Tweezers (x2)	
T13024087	Box of 72 Sensor Wipes	
T99920130	USB Bluetooth® Adaptor V2.1+	

# Calibration verification - peace of mind



A Calibration Verification Tile is available for verifying the accuracy of the gauge whilst out in the field and the verification date is recorded for use in reports.

Calibration Certificate supplied as standard.

## **Salt Contamination Meter**

Elcometer 130

The Elcometer 130 quickly and accurately measures the level of soluble salts on surfaces over 4 times faster than Bresle equivalent test methods.



# Blast Inspection & Test Equipment

#### Elcometer 130

#### **Salt Contamination Meter**

## User Friendly

- Large buttons ideal for gloved hands
- Easy to use menus in multiple languages
- High reading limit indicator
- Factory calibrated for immediate use

## Tough

- Heavy duty, impact resistant, dust and waterproof design equivalent to IP64
- Wipe clean sealed unit ideal for harsh environments
- Scratch and solvent resistant display

## Accurate

- Conductivity measurement to ±1%
- Can be used in accordance with National and International Standards
- Automatic temperature compensation ensures repeatable, accurate results
- Calibration verification tiles
- Trend and batch readings graph formats for instant on-screen analysis

# Reliable

- Repeatable and reproducible measurements
- 2 year gauge warranty<sup>1</sup>
- Supplied with fully traceable Test Certificates
- Batch & individual readings are stored with date and time stamp

## Efficient

- Instant readings allows multiple tests to be completed efficiently
- Alpha numeric batch identification
- Compatible with ElcoMaster® software and ElcoMaster® Mobile App
- Calibration offset allows the use of non-pure distilled water up to 2µg/cm²

#### Powerful

- Measuring range up to 50µg/cm² (3000ppm)
- USB and Bluetooth® data output to iPhone<sup>2</sup> or Android™ devices
- Stores up to 100,000 readings in 1,000 batches
- Soluble salt and conductivity meter in one gauge



<sup>1</sup> The Elcometer 130 is supplied with a 1 year warranty against manufacturing defects. The warranty can be extended free of charge to 2 years within 60 days of purchase via www.elcometer.com.



<sup>2</sup> Compatible with iPod, iPhone and iPad.



# **Salt Contamination Meter**

# Elcometer 130

Technical Specification	■ Standard	□ Optional
	Model S	Model T
Repeatable & reproducible measurements	-	
Easy to use menu structure; in 30+ languages	<b>-</b> 0	
Tough, impact, waterproof & dust resistant; equivalent to IP64		
Bright colour screen; with permanent backlight		
Scratch & solvent resistant display; 2.4" (6cm) TFT	•	
2 year gauge warranty <sup>1</sup>		
USB power supply; via PC		
Calibration certificate		
Calibration Verification Mode (with optional certified calibration tiles	s) $\blacksquare$	
Ambient light sensor; with adjustable auto brightness		
Emergency Light Mode		
Magnetic & tripod mounting points		-
Gauge software updates; via ElcoMaster® software		
Data output		
USB; to computer		
Bluetooth®; to computer, Android™ & iOS² devices		
ElcoMaster® software & USB cable		-
On screen statistics		
Number of readings $(n)$ ; Mean (average) $(\bar{x})$ ; Standard deviation Highest reading $(Hi)$ ; Lowest reading $(Lo)$ ; Coefficient of variation Number of readings above high limit $(\frac{\Delta n}{2})$		
Gauge memory		<b>i</b>
Number of readings		100,000
Number of batches		1,000
pp μS, mS % s	cm <sup>2</sup> 0-25 m /cm /cm Salinity /m <sup>2</sup>	0-50 0-3000 0-6000 0-6 0-0.3 0-500
Measurement mode		
Surface cleanliness	-	
Conductivity		
Calibration Offset Mode	•	
Automatic temperature compensation		
Individual reading stored with date & time		
Plastic transit case		
Alpha-numeric batch names; user definable on the gauge		
Fixed Batch Size Mode; with batch linking		). <b>-</b>
Delete last reading		
Limits; user definable audible & visual pass/fail warnings		
Review, copy, clear & delete batches & calibration settings		
Trend graph; last 20 readings		
Batch review graph		
Analogue bar graph		

<sup>&</sup>lt;sup>1</sup> The Elcometer 130 is supplied with a 1 year warranty against manufacturing defects. The warranty can be extended free of charge to 2 years within 60 days of purchase via www.elcometer.com.

<sup>2</sup> Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

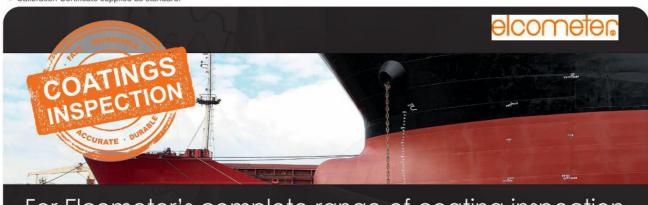
# Blast Inspection & Test Equipment

# Elcometer 130 Salt Contamination Meter

Technical Specificati	on	_	_		_
Model S	Model T	Description			Certificate
E130-S	E130-T	Elcometer 130	Salt Contaminati	ion Meter	
E130-SC	E130-TC	Elcometer 130	Certified Salt Co	ntamination Meter	•
		Model S		Model T	
Measurement Range		0-25µg/cm²		0-50µg/cm²; 0-500mg/m²; 0-6000 0-6mS/cm; 0-3000ppm; 0-0.3% \$	
Resolution		0.1µg/cm²		0.1µg/cm²; 1mg/m² 1µS/cm; 0.001mS/cm 1ppm; 0.0001% Salinity	
Measurement Accuracy	±1% of reading ±0.	1µg/cm²	Operating Rang	e 5°C - 40°C (41°F - 104°F)	
Power Supply	4 x AA batteries (re	chargeable batte	ries can also be	used), or power via USB	
Number of Tests	Approximately 4,00	0 measurements	before battery re	eplacement	
Sample Time	2 minutes		Sampling Size	110mm (4.3") diameter circle	
Dimensions	250 x 145 x 50mm	(9.8 x 5.7 x 1.9")	Weight	780g (1.72lb)	
Packing List	distilled water, 20 x	PVC storage bag rs, 4 x AA batte	is, disposable glo ries, shoulder st	igh purity test papers, 250ml (8.5 oves, sensor wipes, 3 x 3ml (0.1fl o trap, plastic transit case, test cer oftware (T)	z) syringes,

Accessories		
		Certificate
T13023980	Calibration Verification Tiles (x3)	•
T13024091	3ml / 0.1fl oz Syringe (x3)	
T99922341	Display Screen Protectors (x10)	
T13024093	Self Seal Polythene Bags (x20)	
T99911344	Pure Distilled Water - 250ml (8.5fl oz) Bottle with 3ml syringe	
T13027596	Pure Distilled Water - 1000ml (33.8fl oz) Bottle with 3ml syringe	
T13024094	High Purity Test Papers (x100)	
T13024092	Disposable Vinyl Gloves (x20)	
T13024098	Plastic Tweezers (x2)	
T13024087	Sensor Wipes (x72)	
T13025964	Magnetic Discs (x3)	
T99921325	USB Cable	

Calibration Certificate supplied as standard.



For Elcometer's complete range of coating inspection equipment, visit www.elcometer.com

Bresle Salt Kit Elcometer 138

It is essential that the level of contaminants on a surface is measured prior to application of the coating to ensure the quality of the coating and that its optimum lifetime is achieved.

If the coating is applied to a contaminated surface, which is not properly prepared, it could fail prematurely resulting in costly re-coating and high maintenance costs.

The Elcometer 138 Bresle Kits include the Elcometer 138 Bresle Salt Meter. This lightweight, portable meter measures the conductivity of the test sample using a single drop, then automatically converts this to show the density of salts, negating the need for the user to do a manual calculation when working in accordance with ISO 8502-6 or ISO 8502-9.



#### STANDARDS:

AS 3894.6-A, IMO MSC.215 (82), IMO MSC.244 (83), ISO 8502-6, ISO 8502-9, SSPC Guide 15, US Navy NSI 009-32, US Navy PPI 63101-000

Technical Specific	ation	
Part Number	Description	
E138-1C	Elcometer 138 Bresle Salt Kit with Elcometer 138 Bresle Salt Meter and Elcometer 135C Bresle Test Patches	
E138-1C-CM	Elcometer 138 Bresle Salt Kit with Elcometer 138 Conductivity Meter and Elcometer 135C Bresle Test Patches	
E138-1	Elcometer 138 Bresle Salt Kit with Elcometer 138 Bresle Salt Meter and Elcometer 135B Bresle Patches	
E138-1-CM	Elcometer 138 Bresle Salt Kit with Elcometer 138 Conductivity Meter and Elcometer 135B Bresle Patches	
Measurement Range	E138-1, E138-1C: ISO Mode: 0 - 2399μg/cm² IMO Mode : 0 - 2199μg/cm² E138-1-CM, E138-1C-CM: 0 - 19.99mS/cm	
Accuracy*	±2% full scale (for each range)	
Dimensions	393 x 331 x 95mm (15.5 x 13 x 3.7") Weight 1.4kg (3lb 1oz)	
Packing List	Box of 25 Elcometer 135C Bresle Test Patches (E138-1C) or Elcometer 135B Bresle Patch (E138-1), Elcometer 138 Bresle Salt Meter (E138-1C or E138-1) or Elcometer 1 Conductivity Meter (E138-1-CM or E138-1C-CM) & Sensor, 250ml (8.45fl oz) bottle of standa 84μS/cm calibration solution with certificate, 14ml (0.47fl oz) bottle of conditioning solution, 250 (8.5fl oz) bottle of pure water, 3 x 5ml (0.17fl oz) syringes, 3 x blunt needles, 30ml (1fl oz) plas beaker, 2 x CR2032 batteries (supplied fitted to the Elcometer 138), transit case and user guide	

Accessories			
E135B	Elcometer 135B Bresle Patc	hes (Box of 2	5)
E135C25	Elcometer 135C Bresle Test	Patch (Box o	f 25)
E135C100	Elcometer 135C Bresle Test	Patch (Box o	f 100)
T13830629-1	Standard 84µS/cm Calibration Solution, 250ml (8.45fl oz) Bottle		
T13830629-2	Standard 1413µS/cm Calibration Solution, 250ml (8.45fl oz) Bottle		
T13827259	Pure Water - 250ml (8.5fl oz) Bottle		
T13818517	3 x 5ml (0.17fl oz) Syringes	E138-BSM	Elcometer 138 Bresle Salt Meter
T13818518	3 x Needles	E138-CM	Elcometer 138 Conductivity Meter
T13818519	Plastic Beaker 30ml (1fl oz)	T13830628	Replacement Sensor for Conductivity Meter & Bresle Salt Meter

Certificate of Cleanliness & Test Area available at www.elcometer.com/cert

<sup>\*</sup> See Elcometer 138 Bresle Salt Meter for full specification

# Elcometer 138

## **Bresle Salt Meter**



Incorporating a flat sensor, the Elcometer 138 Bresle Salt Meter measures the conductivity of a sample, then automatically converts this to show the density of salts, negating the need for the user to do a manual calculation when working in accordance with ISO 8502-6 or ISO 8502-9.

#### Features:

- Highly precise measurements can be obtained from a single drop
- · Out of range and low battery alarms
- · Visual indication when ambient temperature is outside the operating range





Technical Specification			
Part Number	Description		
E138-BSM	Elcometer 138 Bresle Salt Meter		
Measurement Principle	2 Electrode Bipolar AC		
Measurement Mode	ISO, IMO, Temperature		
Minimum Sample Volume	0.12ml		
	ISO Mode	IMO Mode	
Measuring Range	0 - 2399µg/cm²	0 - 2199µg/cm²	
Conversion Factor	μS/cm to μg/cm² : 0.12 μS/cm to mg/m² : 1.2	μS/cm to μg/cm² : 0.11 μS/cm to mg/m² : 1.1	
Resolution	0 - 239.9µg/cm² : 0.1µg/cm² 240 - 2399µg/cm² : 1µg/cm²	0 - 219.9μg/cm² : 0.1μg/cm² 220 - 2199μg/cm² : 1μg/cm²	
Accuracy	±2% full scale (for each range)		
Operating Temperature	5°C to 40°C (41°F to 104°F)		
Operating Humidity	85% or less relative humidity (no conde	ensation)	
Battery Type	2 x CR2032 lithium batteries		
Battery Life	approx. 200 hours of continuous use without backlight		
Weight	50g (1.76oz) - including sensor and batteries		
Dimensions	164 x 29 x 20mm (6.5 x 1.1 x 0.79")		
Packing List	Elcometer 138 Bresle Salt Meter, 14ml (0.5fl oz) bottle of conditioning solution, 2 x CR2032 lithium batteries and operating instructions		

Accessories	
T13830628	Replacement Sensor
T13830629-1	Standard 84µS/cm Calibration Solution, 250ml (8.45fl oz) Bottle

Conductivity Meter Elcometer 138

Incorporating a flat sensor, the Elcometer 138 Conductivity Meter can measure the conductivity of a solution from a single drop of a sample.

Users can either place a sample on the meter's flat sensor or immerse the meter's sensor directly into the solution under test. The Elcometer 138 can be used for a broad range of applications, including: soluble salt concentrations, the electric conductivity (EC) of solutions used in agricultural operations and measuring rainwater pollution levels.

The Elcometer 138 Conductivity Meter includes a convenient salinity conversion indicator.

#### Features:

- Highly precise measurements can be obtained from a single drop
- Automatic range switching gives a wide measurement range of 1µs/cm to 19.99mS/cm
- Out of range and low battery alarms
- · Visual indication when ambient temperature is outside the operating range







Technical Specification	
Part Number	Description
E138-CM	Elcometer 138 Conductivity Meter
Measurement Principle	2 Electrode Bipolar AC
Measurement Mode	Conductivity, Temperature
Minimum Sample Volume	0.12ml
Measuring Range	0 - 19.99mS/cm
Resolution	0 - 1999μS/cm: 1μS/cm 2.00 - 19.99mS/cm: 0.01mS/cm
Accuracy	±2% full scale (for each range)
Operating Temperature	5°C to 40°C (41°F to 104°F)
Operating Humidity	85% or less relative humidity (no condensation)
Battery Type	2 x CR2032 lithium batteries
Battery Life	approx. 200 hours of continuous use without backlight
Weight	50g (1.76oz) - including sensor and batteries
Dimensions	164 x 29 x 20mm (6.5 x 1.1 x 0.79")
Packing List	Elcometer 138 Conductivity Meter, 14ml (0.5fl oz) bottle of conditioning solution, 14ml (0.5fl oz) bottle of standard 1413µS/cm calibration solution, 2 x CR2032 lithium batteries and operating instructions

Accessories		
T13830628	Replacement Conductivity Sensor	
T13830629-2	Standard 1413µS/cm Calibration Solution, 250ml (8.45fl oz) Bottle	

## **Elcometer 138A**

#### **Abrasive Soluble Salt Test Kit**



STANDARDS: ASTM D4940 Abrasives used for blast cleaning surfaces can be contaminated with soluble salts due to the source or the re-use of the blasting media. This contamination can be transferred to the blast cleaned surface and result in accelerated corrosion conditions which may cause premature coating failure, if this contamination is not removed prior to applying the coating.

Testing abrasives on site for soluble salt contamination can be carried out quickly and easily using the Elcometer 138 Abrasive Soluble Salt Test Kit, according to the ASTM D4940 method. A measured volume of the abrasive is mixed with the same volume of water and agitated to allow any soluble salts to dissolve in the water. The resulting slurry is allowed to settle and the filtered water can then be tested using a conductivity meter. The Elcometer 138 Abrasive Soluble Salt Test Kit provides all that is needed to carry out the test in the field or in the laboratory.

Technical Specifica	tion			
Part Number	Description			
E138-A-CM	Elcometer 138 Abrasive Soluble Salt Test Kit with Elcometer 138 Conductivity Meter			
Measurement Range	0 - 19.99mS/cm (see Elcometer 138 Conductivity Meter for full specification)			
Accuracy	±2% of full scale (see Elcometer 138 Conductivity Meter for full specification)			
Dimensions	456 x 384 x 127mm (18 x 15.1 x 5") Weight 2.2kg (4lb 14oz)			
Packing List	Elcometer 138 Conductivity Meter, 1000ml (33.8 fl oz) bottle of pure distilled water, 100ml & 600ml (3.4 & 20.3 fl oz) glass beakers, 500ml (16.9fl oz) plastic measuring beaker, funnel, stirring rod, box of 100 filter papers, 1 x 14ml (0.47fl oz) standard 1413 $\mu$ S/cm (1.413 mS/cm) calibration solution, 1 x 14ml (0.47fl oz) conditioning solution, 2 x CR2032 batteries, transit case and user guide			

Accessories	
E138-CM	Elcometer 138 Conductivity Meter
T13830628	Replacement Sensor for Conductivity Meter
T13830629-2	Standard 1413µS/cm Calibration Solution; 250ml (8.45fl oz) Bottle
T13827494	Pure Distilled Water 1000ml (33.8fl oz) Bottle
T13827495	Glass Beaker 100ml (3.4fl oz)
T13827496	Glass Beaker 600ml (20.3fl oz)
T13827498	Plastic Measuring Beaker 500ml (16.9fl oz)
T13827497	Funnel
T13827499	Stirring Rod
T13827500	Box of 100 Filter Papers (Grade 413)

## **Chloride Ion Test Kit for Abrasives**

Elcometer 134A

Chlorides deposited on a surface by contaminated abrasives during blasting can cause a coating to fail prematurely.

Contamination can build up, particularly if the blast media is recycled several times. Using the Elcometer 134A Chloride Ion Test in the field will accurately identify contamination and prevent costly surface-related failures.



Technical Specification						
Part Number	Description					
E1342	Elcometer 134A Chloride Ion Test Kit for Abrasives (4 Tests per Kit)					
Measuring Range	1 - 60µg/cm² (1 - 60ppm)	Resolution	1μg/cm² (1ppm)			
Sample Time	1.5 minutes (approx)					
Storage Conditions	Not exceeding 25°C (77°F)					
Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")	Weight	367g (13oz)			
Packing List	4 x test kits, containing: abrasive sample container, mixing container with a pre-measured quantity of solution, titration tube, titration tube snapper, strap and operating instructions					

## **Chloride Ion Test Kit for Water**

Elcometer 134W

The Elcometer 134W is used to monitor recycled water (after it has been applied) to establish effectiveness of salt removal, this test is ideal for testing the salt contamination in wash water and blast water.

If the chloride levels in the wash water are too high, this will promote premature corrosion, shortening the life of both steel and concrete structures.

This test can also be used when mixing concrete.



Technical Specification							
Part Number	Description						
E1343	Elcometer 134W Chloride Ion Test Kit for Liquids (5 Tests per Kit)						
Measuring Range	10 - 2000μg/cm² (10 - 2000ppm) Resolution 10μg/cm² (10ppm)						
Sample Time	1.5 - 4 minutes (approx)						
Storage Conditions	Not exceeding 25°C (77°F)						
Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")	Weight	208g (7oz)				
Packing List	5 x test kits each containing: sample and operating instructions	container bottle	with dropper in lid, titration tube, titration tube snapper				

#### Elcometer 134S

## **Chloride Ion Test Kit for Surfaces**



Chloride salts left on the surface before the first coat is applied can result in the coating system being forced off the surface by corrosion or blistering before the full life of the coating has been reached. To ensure that the chloride has been removed it is essential that the surface is tested before the coating is applied.

Elcometer 134S test method: a latex sleeve is filled with a Chlor\*Rid extract solution and stuck to the test surface where the solution is worked against the surface to extract the salts. The titration tube is inserted and the results can be recorded.

Technical Specification				
Part Number	Description			
E1341	Elcometer 134S Salt Detection Kit for Blast Cleaned Surfaces			
Measuring Range	1 - 60µg/cm² (1 - 60ppm)			
Scale Resolution	1μg/cm² (1ppm)			
Tests per Kit	5			
Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")			
Weight	250g (9oz)			
Packing List	5 x test kits each containing: titration tube snapper, strap, clip, pre-measured bottle of Chlor*Rid extract solution, sleeve, titration tube and operating instructions			

# Elcometer 134 CSN

#### Chloride, Sulphate & Nitrate Kit



The Elcometer 134 CSN Salt Kit is designed to accurately measure surface chloride, sulphate and nitrate ions in minutes and offers a single kit solution for testing in the field.

All the components of the Elcometer CSN Test Kits are pre-measured and pre-dosed for trouble free testing.

Results are recorded in parts per million (ppm) requiring no complicated calculations. Elcometer 134 CSN tests are all designed to use a ratio of 1:1 for easy conversion to  $\mu g/cm^2$ .

Part Number	Description	
E134-CSN	Elcometer 134 CSN Chloride, Sulphate & Nitrate Test Kit	
Measuring Range	0 - 100μg/cm² (0 - 100ppm)	
Scale Resolution	1μg/cm² (1ppm)	
Sample Time	1 - 5 minutes (approximately)	
Storage Temperature	Not exceeding 25°C (77°F)	
Dimensions	360 x 320 x 140mm (14.2 x 12.6 x 5.5")	
Weight	1.76kg (3.8lb)	
Packing List	5 x tests (containing: 5 x chloride tests, 5 x nitrate test strips, 5 x sulphate tests, 5 x syringes), 1 x colorimeter, carry case and operating instructions	

Accessories		
T134-KIT	Refill Kit for Elcometer 134 CSN	

## **Surface Contamination Kit**

#### Elcometer 138/2

Measuring the level of contaminants on a surface prior to application of the coating is essential to ensure the quality of the coating and that its optimum lifetime is achieved.

If the coating is applied to a contaminated surface, which is not properly prepared, it could fail prematurely resulting in costly recoating and high maintenance costs.

The Elcometer 138/2 Surface Contamination Kit provides the user with a means for testing invisible surface contaminants including:

- pH
- chloride ions
- iron
- salts



#### STANDARDS: AS 3894.6-A, AS 3894.6-D, SSPC Guide 15

Part Number	Description			Certificate
E1382	Elcometer 138/2 Surface Contamination Kit			•
Measuring Range	pH: 0pH to 14pH Iron: 3,10, 25, 50, 100, 250, 500mg/l Fe² Chloride: 30- 600μg/cm² (30 - 600ppm) Cl			
Dimensions	300 x 220 x 75mm (11 x 8.6 x 3")	Weight	2.1kg (4.62lb)	
Packing List	100 x pH test strips, 100 x iron test strips, 40 x patches, 3 x 5ml (0.17fl oz) syringes, 3 x needlinstructions			

Accessories			
E135C25	Elcometer 135C Bresle Test Patch (x25)	T13827259	Pure Distilled Water, 250ml (8.5fl oz) Bottle
E135C100	Elcometer 135C Bresle Test Patch (x100)	T13820562	pH Test Strips (x100)
T13818517	3 x 5ml (0.17fl oz) Syringes	T13820563	Iron Test Strips (x100)
T13818518	Needles (x3)	T13820564	Chloride Test Strips (x40)
T13818519	Plastic Beaker, 30ml (1fl oz)		

Calibration Certificate supplied as standard.



## **Elcometer**

## **Blasting Inspection Kits**



The Elcometer Blasting Inspection Kit is a surface preparation inspection kit providing a range of inspection equipment to test surface profile and surface contamination of blasted profiles.

An Elcometer 456 Gauge and probe can also be supplied. (Order separately if required.)

Measurement parameters include:

- Surface assessment
- · Blast equipment inspection
- Surface profile
- · Surface contamination

For more information on individual products, visit www.elcometer.com

#### STANDARDS:

AS 3894.6-A, AS 3894.6-A, AS 3894.6-C, AS 3894.6-D, ASTM D 2200, ASTM D 4417-A, ASTM D 4417-B, ASTM D 4417-C, BS 7079-C5, IMO MSC.215(82), IMO MSC.244(83), ISO 8501-1; ISO 8502-3, ISO 8502-5, ISO 8502-6, ISO 8502-9, ISO 8503-1, ISO 8503-2, ISO 8503-5, NACE RP0287, SANS 5772, SS 55900, SSPC Guide 15, SSPC VIS 1, SSPC VIS 2, SSPC VIS 3, SSPC VIS 4, SSPC VIS 5, US Navy NSI 009-32, US Navy PPI 63101-000

Technical Speci	fication		
Model	Description	Kit 1	Kit 2
Elcometer 128	Pictorial Standards <sup>1</sup>		
Elcometer 102	Needle Pressure Gauge		
Elcometer 103	Blast Nozzle Gauge		
Elcometer 125	Surface Comparator, Grit		
Elcometer 125	Surface Comparator, Shot	entre de la companya	
Elcometer 122	Testex Tape, Coarse		
Elcometer 122	Testex Tape, Extra Coarse		
Elcometer 124	Thickness Gauge		
Elcometer 224	Surface Profile Separate Gauge, Model T		
Elcometer 224	Standard Separate Probe		
Elcometer 142	Dust Tape Test Kit		
Elcometer 134	Chloride, Sulphate & Nitrate Kit		
Elcometer 134S	Chloride Ion Test Kit for Surfaces		
Elcometer 134W	Chloride Ion Test Kit for Water		
Elcometer 138	Bresle Salt Kit <sup>2</sup>		
Elcometer 138/2	Surface Contamination Kit		
ElcoMaster®	Data Management Software & USB Cable		-

<sup>&</sup>lt;sup>1</sup>Swedish Rust Standard ISO 8501, SIS055900 supplied in Metric Kit

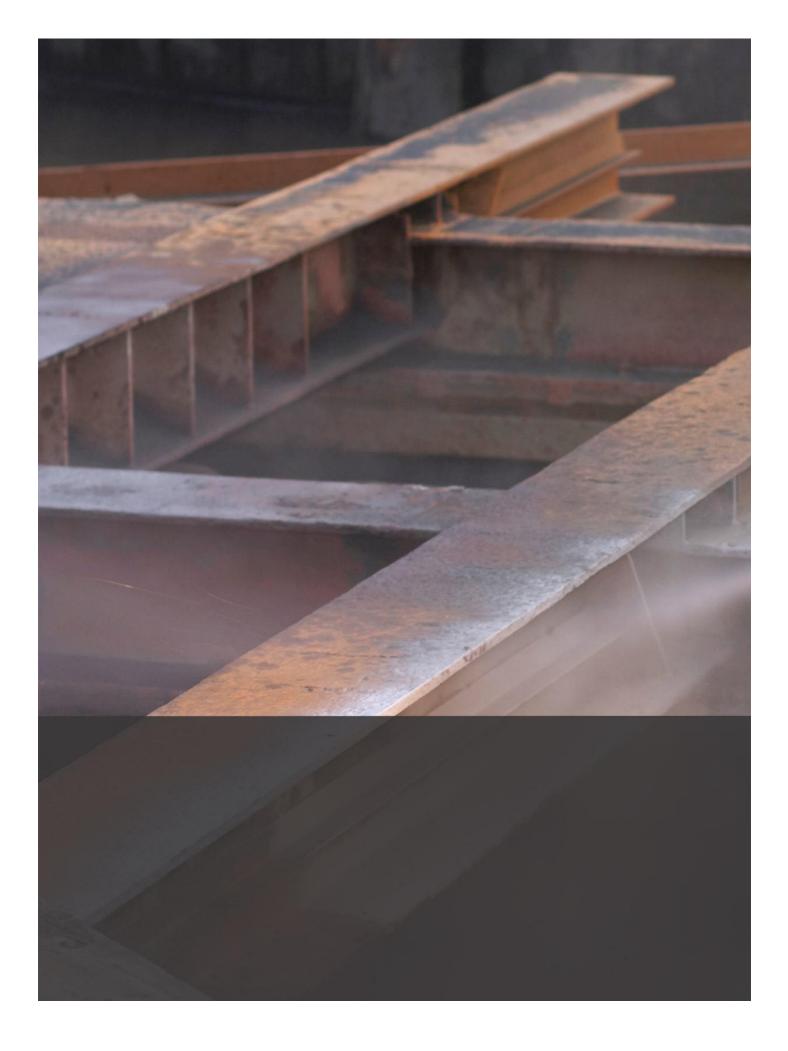
US Standard SSPC VIS 1-01 and VIS-3 supplied in Imperial Kit

<sup>2</sup> Supplied with Elcometer 135C Bresle Test Patches (x50)	<sup>2</sup> Supplied	with	Elcometer	135C	Bresle	Test	Patches	(x50)	)
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Technical Specification			
Part Number Metric	Imperial	Description	
YKIT-BLAST-1M	YKIT-BLAST-1E	Elcometer Blasting Inspection Kit 1	
YKIT-BLAST-2M	YKIT-BLAST-2E	Elcometer Blasting Inspection Kit 2	
Dimensions	Kit 1	495 x 420 x 175mm (19.49 x 16.54 x 6.89")	
	Kit 2	575 x 475 x 205mm (22.64 x 18.70 x 8.07")	



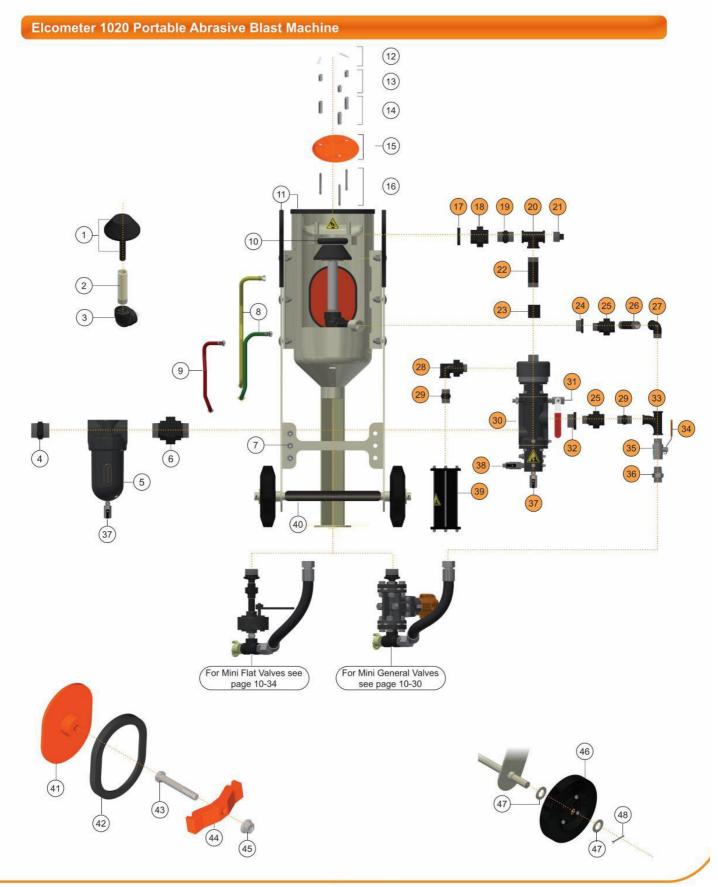
The Elcometer 224 provides the very latest in surface profile measuring technology for measuring profile on either flat or curved surfaces.





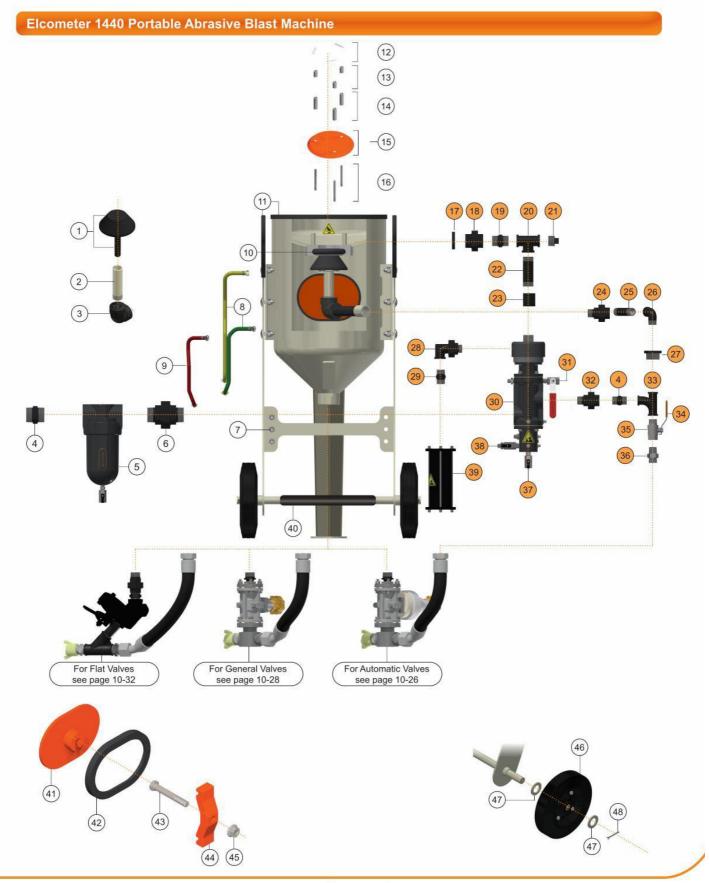
# PRODUCT PARTS LISTS

- 12bar Abrasive Blast Machines
- 15bar Abrasive Blast Machines
- Air Distribution Manifolds
- AGV Automatic General Valve
- GV General Valves
- MGV Mini General Valves
- FV Flat Valve
- MFV Mini Flat Valve
- RCV4000 Remote Control Valve
- RCV4000+ Remote Control Valve
- RCV Exhaust Silencer
- Moisture Separator



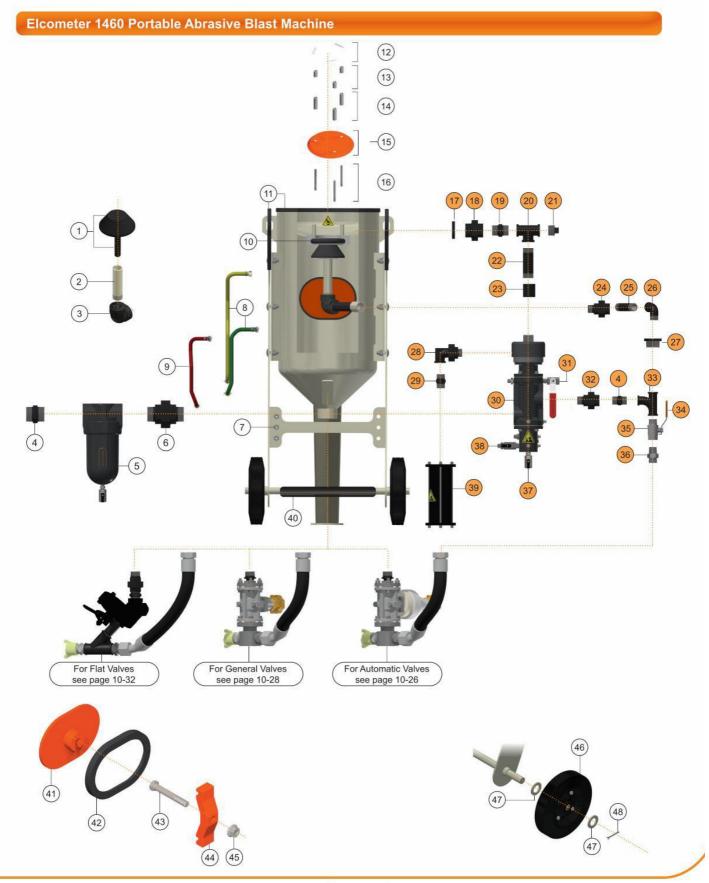
# **Elcometer 1020 Portable Abrasive Blast Machine**

Part Number MT28622 MT28631-1	Pop Up Valve (see page 4-5)	
1121/2012/09/2012/11/09/2012		
	1" (25mm) Pop Up Shaft for Elcometer 1020	
MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)	
MT29663	1½" (38mm) Hex Nipple	
MT28617	Moisture Separator Assembly (see page 4-7)	
The Later Control of the Control	1½" (38mm) Male/Male Union Taper Seat	
-	1/4" (6mm) Bulkhead Connector (x3)	
The state of the s	Elcometer 1020 Twin Airline Hose Assembly (Yellow & Green)	
THE RESERVE TO BE SEEN THE PARTY OF THE PART	Airline Assembly for Elcometer 1020 (Red)	
	Pop Up Valve O-Ring (x5)	
	Protective Edging Strip Kit (2.7m) (8.9ft)	
	Spring Cotter Pin Type E (x3)	
- Children Control of the Control of	Short Deflector Plate Spacer - 9mm (0.3") (x3)	
The second second second	Long Deflector Plate Spacer -18mm (3/4") (x3)	
	Deflector Plate	
100000000000000000000000000000000000000	Deflector Plate Shaft - 33mm (1.3") (x3)	
	1" (25mm) Backnut (Recessed)	
	1" (25mm) Female/Female Union Taper Seat	
	1" (25mm) Hex Nipple	
	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)	
MANAGEMENT OF THE REAL PROPERTY OF THE PERSON OF THE PERSO	1" (25mm) Exhaust Plug	
Control of the Contro	1" (25mm) Pipe for Elcometer 1020 (98mm) (3.9")	
A CONTRACTOR OF THE SECOND SEC	1" (25mm) Socket	
The second secon	1" x ¾" Reducing Bush (25 x 19mm)	
The second secon	3/4" (19mm) Male/Female Equal Union Taper Seat	
THE RESIDENCE OF THE PARTY OF T	3/4" (19mm) Pipe for Elcometer 1020 (92mm)	
	3/4" (19mm) Male/Female 90° Elbow	
	3/4" (19mm) Reinforced Union Elbow	
	3/4" (19mm) Hex Nipple	
The state of the s	Elcometer RCV4000+ Remote Control Valve (see page 3-5)	
	Petcock Valve Assembly - (Red Handle)	
	1½" x ¾" Reducing Bush (38 x 19mm)	
	3/4" (19mm) Equal Pitcher T	
The second second	3/4" (19mm) Choke Valve Handle	
	3/4" (19mm) Choke Valve Assembly (includes MT30095 Choke Valve Handle)	
	3/4" (19mm) 60° Cone Male/Male Adaptor	
	1/4" (6mm) Ball Valve Assembly - (Black Handle) 1/4" (6mm) Airline Ball Valve Assembly (Black Handle)	
	Exhaust Silencer Assembly (see page 3-7)	
The second secon	Protection Guard for Elcometer 1020	
	Elcometer Inspection Hatch Door for Elcometer 1020 ElcoFit™ Door Sealing Gasket	
	Elcometer Inspection Door Hatch Bolt - M16 x 110mm	
	Inspection Hatch Door Yoke	
The second secon	M16 Hexagon Flanged Nut	
	Ø200mm (7.9") Diameter Wheel (x1)	
	Flat Washer (x8)	
	Split Cotter Pin (x4)  Floometer PCV(4000+ & Pinguark Accombly Sorvice Kit (contains items in orange)	
The state of the s	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)  Elcometer Safety Label Kit	
	MT28617 MT29662 MT29664 MT29665 MT29666 MT28627-5 MT29661 MT29667 MT29668 MT29669 MT29670 MT28629-1 MT29672 MT29673 MT29679 MT29680 MT29681 MT29682 MT29683 MT29685 MT29684 MT29686 MT29686 MT29687 MT29688 MT29686 MT29687 MT29688 MT29687 MT29689 MT29689 MT30095 MT28610 MT29691 MT29691 MT29691 MT29692-1 MT29693 MT29695 MT296997 MT29698 MT29696 MT28615 MT29696 MT28615 MT29697 MT29698 MT29698	



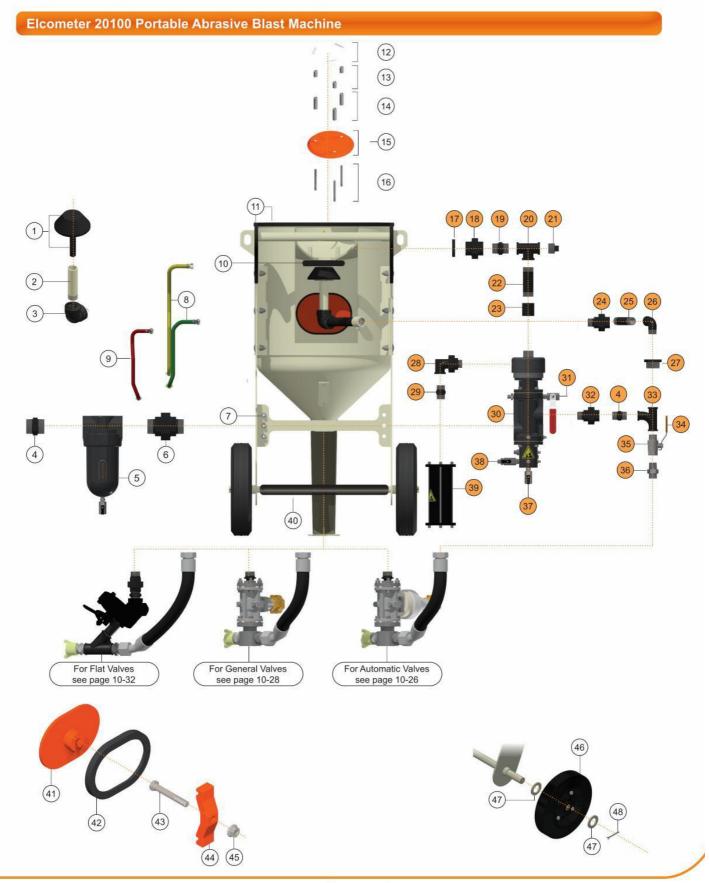
# **Elcometer 1440 Portable Abrasive Blast Machine**

	e Parts		
Item	Part Number	Description	
1	MT28622	Pop Up Valve (see page 4-5)	
2	MT28631-2	1" (25mm) Pop Up Shaft for Elcometer 1440	
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)	
4	MT29663	1½" (38mm) Hex Nipple	
5	MT28617	Moisture Separator Assembly (see page 4-7)	
6	MT29662	1½" (38mm) Male/Male Union Taper Seat	
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)	
8	MT29699	Elcometer 1440 Twin Airline Hose Assembly (Yellow & Green)	
9	MT29700	Airline Assembly for Elcometer 1440 (Red)	
10	MT28627-5	Pop Up Valve O-Ring (x5)	
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)	
12	MT29667	Spring Cotter Pin Type E (x3)	
13	MT29701	Short Deflector Plate Spacer - 16mm (0.6") (x3)	
14	MT29702	Long Deflector Plate Spacer - 30mm (1.2") (x3)	
15	MT29670	Deflector Plate	
16	MT28629-2	Deflector Plate Shaft - 51mm (2") (x3)	
17	MT29672	1" (25mm) Backnut (Recessed)	
18	MT29673	1" (25mm) Female/Female Union Taper Seat	
19	MT29679	1" (25mm) Hex Nipple	
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)	
21	MT29681	1" (25mm) Exhaust Plug	
22	MT30121	1" (25mm) Pipe for Elcometer 1440 (79mm)	
23	MT29683	1" (25mm) Socket	
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat	
25	MT30120	1" (25mm) Pipe for Elcometer 1440 (115mm) (41/2")	
26	MT29706	1" (25mm) Male/Female 90° Elbow	
27	MT29707	1" to 11/2" Reducing Bush (25 x 38mm)	
28	MT28599	¾" (19mm) Reinforced Union Elbow	
29	MT29688	¾" (19mm) Hex Nipple	
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)	
31	MT29656	Petcock Valve Assembly (Red Handle)	
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat	
33	MT29708	1½" (38mm) Equal Pitcher T	
34	MT30094	1½" (38mm) Choke Valve Handle	
35	MT29177	11/2" (38mm) Choke Valve Assembly (include MT30094 Choke Valve Handle)	
36	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor	
37	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)	
38	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)	
39	MT28597	Exhaust Silencer Assembly (see page 3-7)	
40	MT29692-2	Protection Guard for Elcometer 1440	
41	MT28616	Elcometer Inspection Hatch Door for Elcometer 1440	
42	MT28613	ElcoFit™ Door Sealing Gasket	
43	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm	
44	MT28615	Inspection Hatch Door Yoke	
45	MT29696	M16 Hexagon Flanged Nut	
46	MT28636	Ø250mm (9.8") Diameter Wheel (x1)	
47	MT29697	Flat Washer (x8)	
48	MT29698	Split Cotter Pin (x4)	
-	MT29490-2	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)	
_	MT29180	Elcometer Safety Label Kit	



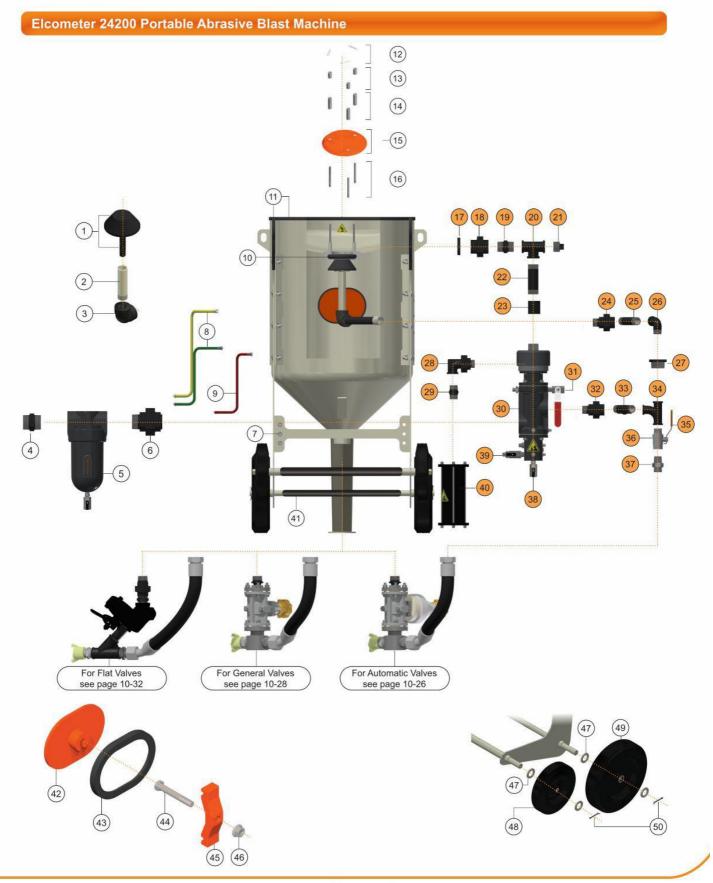
# **Elcometer 1460 Portable Abrasive Blast Machine**

	e Parts	Description	
Item	Part Number	Description 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1	MT28622	Pop Up Valve (see page 4-5)	
2	MT28631-3	1" (25mm) Pop Up Shaft for Elcometer 1460	
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)	
4	MT29663	1½" (38mm) Hex Nipple	
5	MT28617	Moisture Separator Assembly (see page 4-7)	
6	MT29662	1½" (38mm) Male/Male Union Taper Seat	
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)	
8	MT29711	Elcometer 1460 Twin Airline Hose Assembly (Yellow & Green)	
9	MT29712	Airline Assembly for Elcometer 1460 (Red)	
10	MT28627-5	Pop Up Valve O-Ring (x5)	
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)	
12	MT29667	Spring Cotter Pin Type E (x3)	
13	MT29701	Short Deflector Plate Spacer - 16mm (0.6") (x3)	
14	MT29702	Long Deflector Plate Spacer - 30mm (1.2") (x3)	
15	MT29670	Deflector Plate	
16	MT28629-2	Deflector Plate Shaft - 51mm (2") (x3)	
17	MT29672	1" (25mm) Backnut (Recessed)	
18	MT29673	1" (25mm) Female/Female Union Taper Seat	
19	MT29679	1" (25mm) Hex Nipple	
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)	
21	MT29681	1" (25mm) Exhaust Plug	
22	MT29714	1" (25mm) Pipe for Elcometer 1460 (110mm) (4.3")	
23	MT29683	1" (25mm) Socket	
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat	
25	MT29713	1" (25mm) Pipe for Elcometer 1460 (126mm) (5")	
26	MT29706	1" (25mm) Male/Female 90° Elbow	
27	MT29707	1" to 11/2" Reducing Bush (25 x 38mm)	
28	MT28599	3/4" (19mm) Reinforced Union Elbow	
29	MT29688	¾" (19mm) Hex Nipple	
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)	
31	MT29656	Petcock Valve Assembly (Red Handle)	
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat	
33	MT29708	1½" (38mm) Equal Pitcher T	
34	MT30094	1½" (38mm) Choke Valve Handle	
35	MT29177	11/2" (38mm) Choke Valve Assembly (include MT30094 Choke Valve Handle)	
36	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor	
37	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)	
38	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)	
39	MT28597	Exhaust Silencer Assembly (see page 3-7)	
40	MT29692-2	Protection Guard for Elcometer 1460	
41	MT28616	Elcometer Inspection Hatch Door for Elcometer 1460	
42	MT28613	ElcoFit™ Door Sealing Gasket	
43	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm	
44	MT28615	Inspection Hatch Door Yoke	
45	MT29696	M16 Hexagon Flanged Nut	
46	MT28636	Ø250mm (9.8") Diameter Wheel (x1)	
47	MT29697	Flat Washer (x8)	
48	MT29698	Split Cotter Pin (x4)	
-	MT29490-3	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)	
-	MT29180	Elcometer Safety Label Kit	



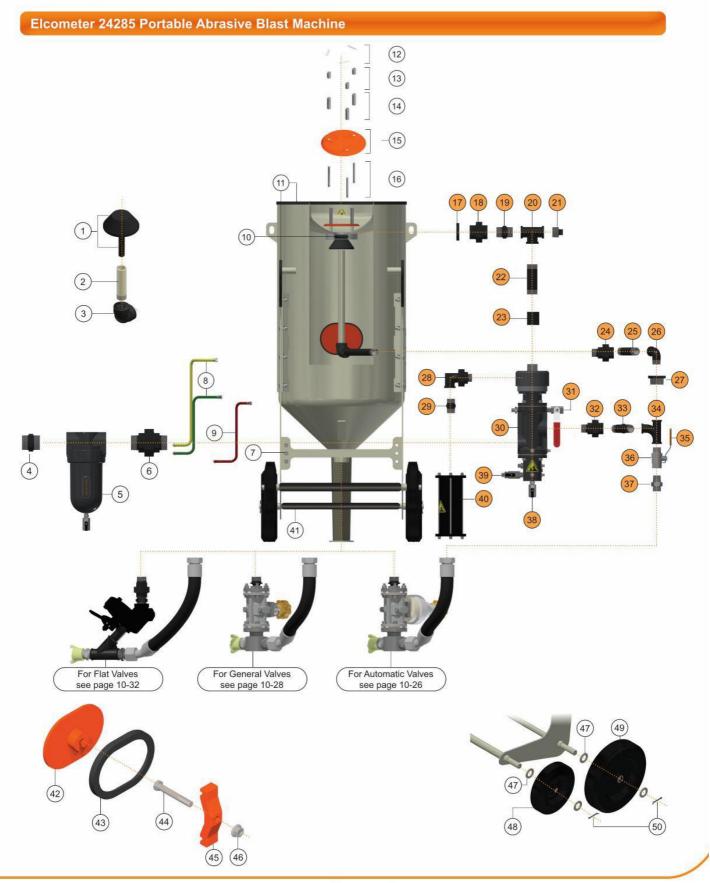
# Elcometer 20100 Portable Abrasive Blast Machine

Spar	Spare Parts				
Item	Part Number	Description			
1	MT28622	Pop Up Valve (see page 4-5)			
2	MT28631-4	1" (25mm) Pop Up Shaft for Elcometer 20100			
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)			
4	MT29663	1½" (38mm) Hex Nipple			
5	MT28617	Moisture Separator Assembly (see page 4-7)			
6	MT29662	1½" (38mm) Male/Male Union Taper Seat			
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)			
8	MT29716	Elcometer 20100 Twin Airline Hose Assembly (Yellow & Green)			
9	MT29717	Airline Assembly for Elcometer 20100 (Red)			
10	MT28627-5	Pop Up Valve O-Ring (x5)			
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)			
12	MT29667	Spring Cotter Pin Type E (x3)			
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")			
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")			
15	MT29670	Deflector Plate			
16	MT28629-3	Deflector Plate Shaft - 82mm (3.2") (x3)			
17	MT29672	1" (25mm) Backnut (Recessed)			
18	MT29673	1" (25mm) Female/Female Union Taper Seat			
19	MT29679	1" (25mm) Hex Nipple			
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)			
21	MT29681	1" (25mm) Exhaust Plug			
22	MT29718	1" (25mm) Pipe for Elcometer 20100 (118mm) (4.6")			
23	MT29683	1" (25mm) Socket			
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat			
25	MT29682	1" (25mm) Pipe for Elcometer 20100 (98mm) (3.9")			
26	MT29706	1" (25mm) Male/Female 90° Elbow			
27	MT29707	1" to 11/2" Reducing Bush (25 x 38mm)			
28	MT28599	¾" (19mm) Reinforced Union Elbow			
29	MT29688	¾" (19mm) Hex Nipple			
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)			
31	MT29656	Petcock Valve Assembly (Red Handle)			
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat			
33	MT29708	1½" (38mm) Equal Pitcher T			
34	MT30094	1½" (38mm) Choke Valve Handle			
35	MT29177	11/2" (38mm) Choke Valve Assembly (includes MT30094 Choke Valve Handle)			
36	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor			
37	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)			
38	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)			
39	MT28597	Exhaust Silencer Assembly (see page 3-7)			
40	MT29692-3	Protection Guard for Elcometer 20100			
41	MT28616	Elcometer Inspection Hatch Door for Elcometer 20100			
42	MT28613	ElcoFit™ Door Sealing Gasket			
43	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm			
44	MT28615	Inspection Hatch Door Yoke			
45	MT29696	M16 Hexagon Flanged Nut			
46	MT28637	Ø350mm (13.8") Diameter Wheel (x1)			
47	MT29697	Flat Washer (x8)			
48	MT29698	Split Cotter Pin (x4)			
-	MT29490-4	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)			
-	MT29180	Elcometer Safety Label Kit			



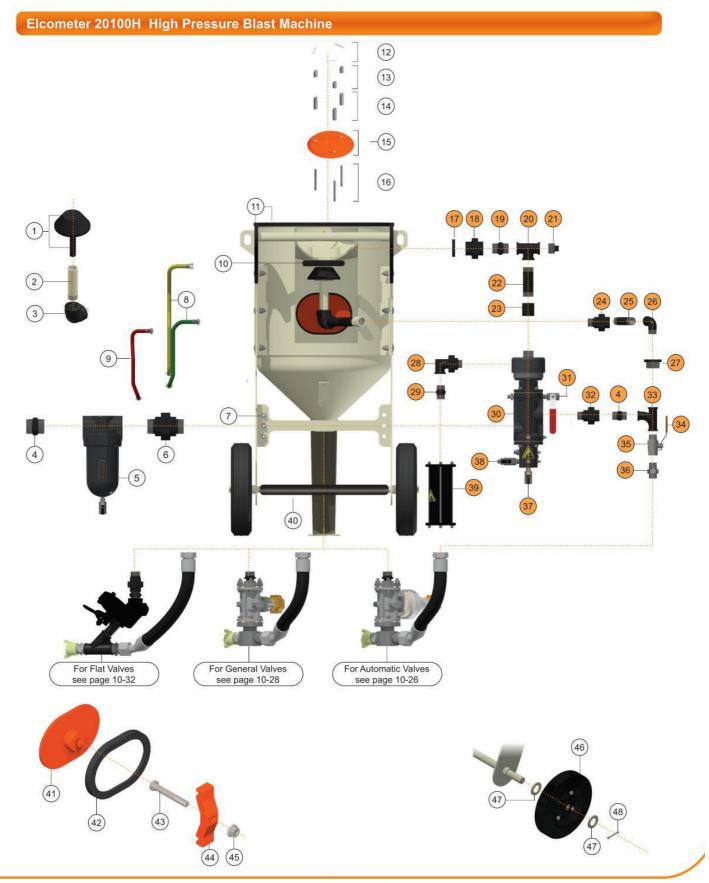
# Elcometer 24200 Portable Abrasive Blast Machine

Item	e Parts Part Number	Description	
1	MT28622	Pop Up Valve (see page 4-5)	
2	MT28622 MT28631-5	1" (25mm) Pop Up Shaft for Elcometer 24200	
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)	
	-	1½" (38mm) Hex Nipple	
4	MT29663	2 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	
5	MT28617	Moisture Separator Assembly (see page 4-7)	
6	MT29662	1½" (38mm) Male/Male Union Taper Seat	
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)	
8	MT29721	Elcometer 24200 Twin Airline Hose Assembly (Yellow & Green)	
9	MT29722	Airline Assembly for Elcometer 24200 (Red)	
10	MT28627-5	Pop Up Valve O-Ring (x5)	
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)	
12	MT29667	Spring Cotter Pin Type E (x3)	
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")	
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")	
15	MT29670	Deflector Plate	
16	MT28629-3	Deflector Plate Shaft - 82mm (x3) (3.2")	
17	MT29672	1" (25mm) Backnut (Recessed)	
18	MT29673	1" (25mm) Female/Female Union Taper Seat	
19	MT29679	1" (25mm) Hex Nipple	
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)	
21	MT29681	1" (25mm) Exhaust Plug	
22	MT29723	1" (25mm) Pipe for Elcometer 24200 (170mm) (6.7")	
23	MT29683	1" (25mm) Socket	
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat	
25	MT29724	1" (25mm) Pipe for Elcometer 24200 (108mm) (41/4")	
26	MT29706	1" (25mm) Male/Female 90° Elbow	
27	MT29707	1" to 1 1/2" Reducing Bush (25 x 38mm)	
28	MT28599	¾" (19mm) Reinforced Union Elbow	
29	MT29688	¾" (19mm) Hex Nipple	
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)	
31	MT29656	Petcock Valve Assembly (Red Handle)	
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat	
33	MT30127-1	1½" (38mm) Pipe for Elcometer 24200 (83mm) (3.3")	
34	MT29708	1½" (38mm) Equal Pitcher T	
35	MT30094	1½" (38mm) Choke Valve Handle	
36	MT29177	1½" (38mm) Choke Valve Handle Assembly (includes MT30094 Choke Valve Handle)	
37	MT29710	11/2" (38mm) 60° Cone Male/Male Adaptor	
38	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)	
39	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)	
40	MT28597	Exhaust Silencer Assembly (see page 3-7)	
41	MT29692-4	Protection Guard for Elcometer 24200	
42	MT28616	Elcometer Inspection Hatch Door for Elcometer 24200	
43	MT28613	ElcoFit™ Door Sealing Gasket	
44	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm	
45	MT28615	Inspection Hatch Door Yoke	
46	MT29696	M16 Hexagon Flanged Nut	
47	MT29697	Flat Washer (x8)	
48	MT28636	Ø250mm (9.8") Diameter Wheel (x1)	
49	MT28637	Ø350mm (13.8") Diameter Wheel (x1)	
50	MT29698	Split Cotter Pin (x4)	
-	MT29490-5	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)	
	M120-30-0	Electricity 100 1 a r spework 7656 mby Gorales Nit (contains items in orange)	



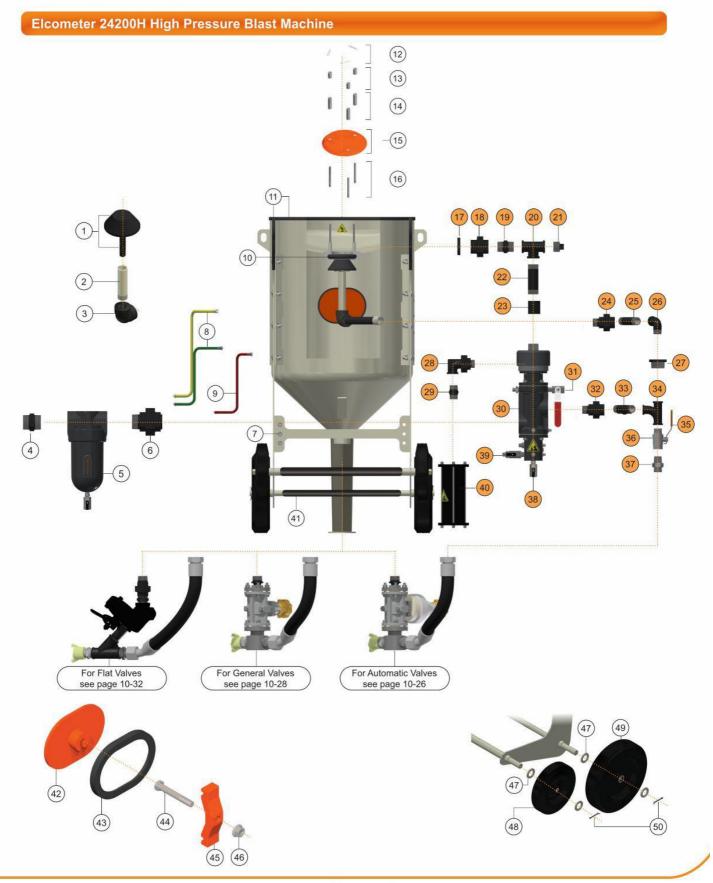
# Elcometer 24285 Portable Abrasive Blast Machine

Item	Part Number	Description	
1	MT28622	Pop Up Valve (see page 4-5)	
2	MT28631-6	1" (25mm) Pop Up Shaft for Elcometer 24285	
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)	
4	MT29663	1½" (38mm) Hex Nipple	
5	MT28617	Moisture Separator Assembly (see page 4-7)	
6	MT29662	1½" (38mm) Male/Male Union Taper Seat	
7	MT29664	1/2" (6mm) Bulkhead Connector (x3)	
8	MT29727	Elcometer 24285 Twin Airline Hose Assembly (Yellow & Green)	
9	MT29727	Airline Assembly for Elcometer 24285 (Red)	
10	MT28627-5	Pop Up Valve O-Ring (x5)	
11	MT29601		
12	MT29667	Protective Edging Strip Kit (2.7m) (8.9ft)	
13	MT29719	Spring Cotter Pin Type E (x3)  Short Deflector Plate Spacer (25mm (x3) (1")	
14	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")	
770707	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")  Deflector Plate	
15	MT28629-3		
16		Deflector Plate Shaft - 82mm (x3) (3.2")	
17	MT29672	1" (25mm) Backnut (Recessed)	
18	MT29673	1" (25mm) Female/Female Union Taper Seat	
19	MT29679	1" (25mm) Hex Nipple	
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)	
21	MT29681	1" (25mm) Exhaust Plug	
22	MT29729	1" (25mm) Pipe for Elcometer 24285 (448mm) (17.6")	
23	MT29683	1" (25mm) Socket	
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat	
25	MT29730	1" (25mm) Pipe for Elcometer 24285 (106mm) (4.2")	
26	MT29706	1" (25mm) Male/Female 90° Elbow	
27	MT29707	1" to 1½" Reducing Bush (25 x 38mm)	
28	MT28599	3/4" (19mm) Reinforced Union Elbow	
29	MT29688	3/4" (19mm) Hex Nipple	
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)	
31	MT29656	Petcock Valve Assembly (Red Handle)	
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat	
33	MT29726	1½" (38mm) Pipe for Elcometer 24285 (84mm) (3.3")	
34	MT29708	1½" (38mm) Equal Pitcher T	
35	MT30094	1½" (38mm) Choke Valve Handle	
36	MT29177	1½" (38mm) Choke Valve Handle Assembly (includes MT30094 Choke Valve Handle)	
37	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor	
38	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)	
39	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)	
40	MT28597	Exhaust Silencer Assembly (see page 3-7)	
41	MT29692-4	Protection Guard for Elcometer 24285	
42	MT28616	Elcometer Inspection Hatch Door for Elcometer 24285	
43	MT28613	ElcoFit™ Door Sealing Gasket	
44	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm	
45	MT28615	Inspection Hatch Door Yoke	
46	MT29696	M16 Hexagon Flanged Nut	
47	MT29697	Flat Washer (x8)	
48	MT28636	Ø250mm (9.8") Diameter Wheel (x1)	
49	MT28637	Ø350mm (13.8") Diameter Wheel (x1)	
50	MT29698	Split Cotter Pin (x4)	
-	MT29490-6	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)	
-	MT29180	Elcometer Safety Label Kit	



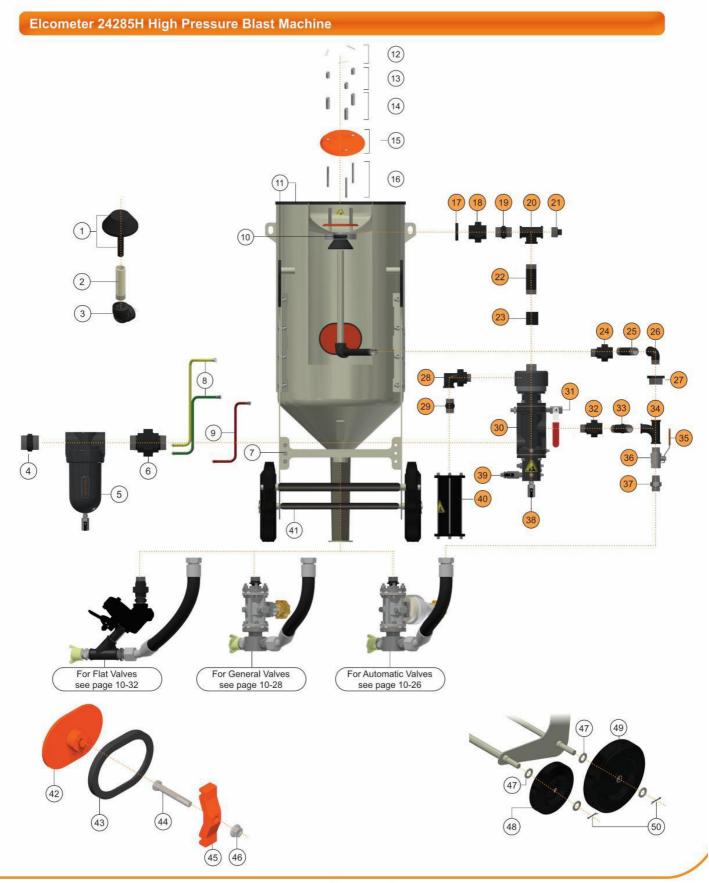
# Elcometer 20100H High Pressure Blast Machine

Spar	Spare Parts			
Item	Part Number	Description		
1	MT28622	Pop Up Valve (see page 4-5)		
2	MT28631-4	1" (25mm) Pop Up Shaft for Elcometer 20100H		
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)		
4	MT29663	1½" (38mm) Hex Nipple		
5	MT28617	Moisture Separator Assembly (see page 4-7)		
6	MT29662	1½" (38mm) Male/Male Union Taper Seat		
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)		
8	MT29716	Elcometer 20100H Twin Airline Hose Assembly (Yellow & Green)		
9	MT29717	Airline Assembly for Elcometer 20100H (Red)		
10	MT28627-5	Pop Up Valve O-Ring (x5)		
11	MT31073	Protective Edging Strip Kit (2.7m) (8.9ft)		
12	MT29667	Spring Cotter Pin Type E (x3)		
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")		
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")		
15	MT29670	Deflector Plate		
16	MT28629-3	Deflector Plate Shaft - 82mm (3.2") (x3)		
17	MT29672	1" (25mm) Backnut (Recessed)		
18	MT29673	1" (25mm) Female/Female Union Taper Seat		
19	MT29679	1" (25mm) Hex Nipple		
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)		
21	MT29681	1" (25mm) Exhaust Plug		
22	MT29718	1" (25mm) Pipe for Elcometer 20100H (118mm) (4.6")		
23	MT29683	1" (25mm) Socket		
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat		
25	MT29682	1" (25mm) Pipe for Elcometer 20100H (98mm) (3.9")		
26	MT29706	1" (25mm) Male/Female 90° Elbow		
27	MT29707	1" to 1½" Reducing Bush (25 x 38mm)		
28	MT28599	3/4" (19mm) Reinforced Union Elbow		
29	MT29688	3/4" (19mm) Hex Nipple		
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)		
31	MT29656	Petcock Valve Assembly (Red Handle)		
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat		
33	MT29708	1½" (38mm) Equal Pitcher T		
34	MT30094	1½" (38mm) Choke Valve Handle		
35	MT29177	1½" (38mm) Choke Valve Handle (includes MT30094 Choke Valve Handle)		
36	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor		
37	MT29658	1/2" (6mm) Ball Valve Assembly (Black Handle)		
38	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)		
39	MT28597	Exhaust Silencer Assembly (see page 3-7)		
40	MT29692-3	Protection Guard for Elcometer 20100H		
41	MT28616	Elcometer Inspection Hatch Door for Elcometer 20100H		
42	MT28613	ElcoFit™ Door Sealing Gasket		
43	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm		
43	MT28615	Inspection Hatch Door Yoke		
-		M16 Hexagon Flanged Nut		
45	MT29696			
46	MT28637	Ø350mm (13.8") Diameter Wheel (x1)		
47	MT29697	Flat Washer (x8)		
48	MT29698	Split Cotter Pin (x4)  Flormator PCV4000 + 8 Pinguardy Accomply Somiling Kit (contains items in crongs)		
-	MT29490-4	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)		
-	MT29180	Elcometer Safety Label Kit		



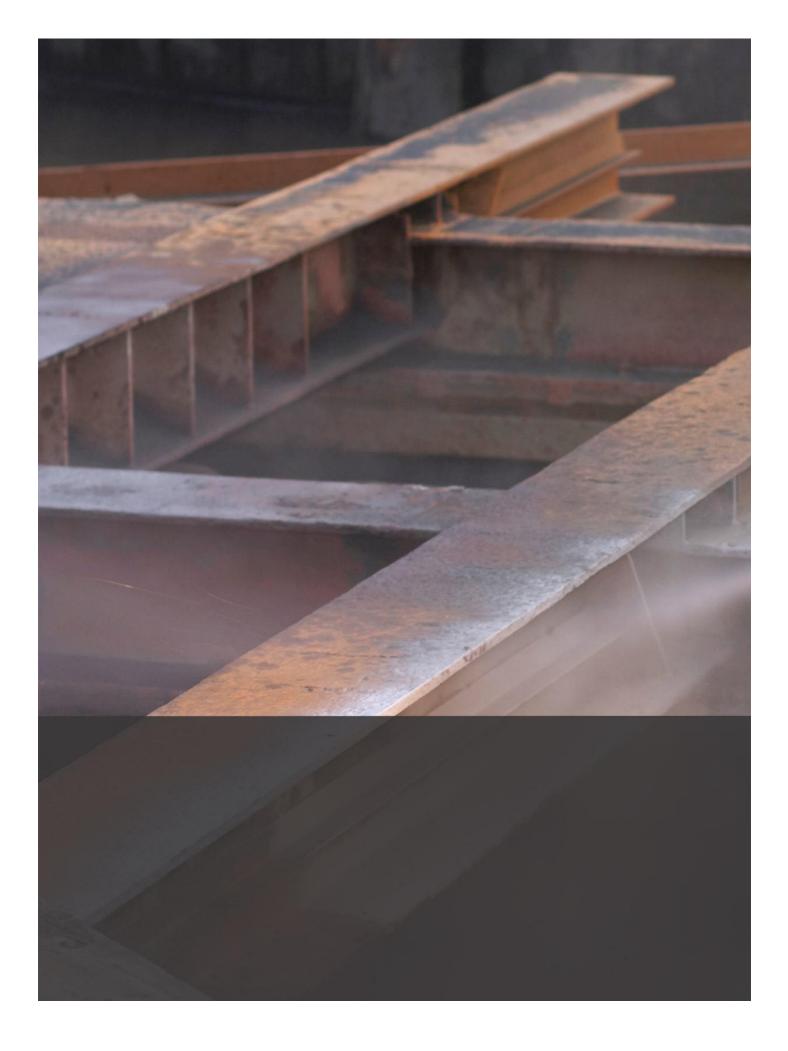
## **Elcometer 24200H High Pressure Blast Machine**

Item	e Parts Part Number	Description
1		
	MT28622	Pop Up Valve (see page 4-5)
2	MT28631-5	1" (25mm) Pop Up Shaft for Elcometer 24200H
- 23	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)
4	MT29663	1½" (38mm) Hex Nipple
5	MT28617	Moisture Separator Assembly (see page 4-7)
6	MT29662	1½" (38mm) Male/Male Union Taper Seat
7	MT29664	1/4" (6mm) Bulkhead Connector (x3)
8	MT29721	Elcometer 24200H Twin Airline Hose Assembly (Yellow & Green)
9	MT29722	Airline Assembly for Elcometer 24200H (Red)
10	MT28627-5	Pop Up Valve O-Ring (x5)
11	MT31073	Protective Edging Strip Kit (2.7m) (8.9ft)
12	MT29667	Spring Cotter Pin Type E (x3)
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")
15	MT29670	Deflector Plate
16	MT28629-3	Deflector Plate Shaft - 82mm (x3) (3.2")
17	MT29672	1" (25mm) Backnut (Recessed)
18	MT29673	1" (25mm) Female/Female Union Taper Seat
19	MT29679	1" (25mm) Hex Nipple
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)
21	MT29681	1" (25mm) Exhaust Plug
22	MT29723	1" (25mm) Pipe for Elcometer 24200H (170mm) (6.7")
23	MT29683	1" (25mm) Socket
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat
25	MT29724	1" (25mm) Pipe for Elcometer 24200H (108mm) (4 1/4")
26	MT29706	1" (25mm) Male/Female 90° Elbow
27	MT29707	1" to 11/2" Reducing Bush (25 x 38mm)
28	MT28599	¾" (19mm) Reinforced Union Elbow
29	MT29688	¾" (19mm) Hex Nipple
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)
31	MT29656	Petcock Valve Assembly (Red Handle)
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat
33	MT30127-1	1½" (38mm) Pipe for Elcometer 24200H (83mm) (3.3")
34	MT29708	1½" (38mm) Equal Pitcher T
35	MT30094	1½" (38mm) Choke Valve Handle
36	MT29177	1½" (38mm) Choke Valve Handle Assembly (includes MT30094 Choke Valve Handle)
37	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor
38	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)
39	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)
40	MT28597	Exhaust Silencer Assembly (see page 3-7)
41	MT29692-4	Protection Guard for Elcometer 24200H
42	MT28616	Elcometer Inspection Hatch Door for Elcometer 24200H
43	MT28613	ElcoFit™ Door Sealing Gasket
44	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm
45	MT28615	Inspection Hatch Door Yoke
46	MT29696	M16 Hexagon Flanged Nut
47	MT29697	Flat Washer (x8)
48	MT28636	Ø250mm (9.8") Diameter Wheel (x1)
49	MT28637	Ø350mm (13.8") Diameter Wheel (x1)
50	MT29698	Split Cotter Pin (x4)
-	MT29490-5	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)
-	MT29180	Elcometer Safety Label Kit



## Elcometer 24285H High Pressure Blast Machine

Item	Part Number	Description
1	MT28622	Pop Up Valve (see page 4-5)
2	MT28631-6	1" (25mm) Pop Up Shaft for Elcometer 24285H
3	MT29661	1" (25mm) Female 90° Equal Elbow (Service Item Only)
4	MT29663	1½" (38mm) Hex Nipple
5	MT28617	Moisture Separator Assembly (see page 4-7)
6	Company of the Company	1½" (38mm) Male/Male Union Taper Seat
7	MT29662	1/2" (6mm) Bulkhead Connector (x3)
-80	MT29664	
8	MT29727	Elcometer 24285H Twin Airline Hose Assembly (Yellow & Green)
9	MT29728	Airline Assembly for Elcometer 24285H (Red)
10	MT28627-5	Pop Up Valve O-Ring (x5)
11	MT31073	Protective Edging Strip Kit (2.7m) (8.9ft)
12	MT29667	Spring Cotter Pin Type E (x3)
13	MT29719	Short Deflector Plate Spacer - 25mm (x3) (1")
14	MT29720	Long Deflector Plate Spacer - 51mm (x3) (2")
15	MT29670	Deflector Plate
16	MT28629-3	Deflector Plate Shaft - 82mm (x3) (3.2")
17	MT29672	1" (25mm) Backnut (Recessed)
18	MT29673	1" (25mm) Female/Female Union Taper Seat
19	MT29679	1" (25mm) Hex Nipple
20	MT29680	1" (25mm) Exhaust T Assembly (complete with MT29681 Exhaust Plug)
21	MT29681	1" (25mm) Exhaust Plug
22	MT29729	1" (25mm) Pipe for Elcometer 24285H (448mm) (17.6")
23	MT29683	1" (25mm) Socket
24	MT29704	1" (25mm) Male/Female Equal Union Taper Seat
25	MT29730	1" (25mm) Pipe for Elcometer 24285H (106mm) (4.2")
26	MT29706	1" (25mm) Male/Female 90° Elbow
27	MT29707	1" to 11/2" Reducing Bush (25 x 38mm)
28	MT28599	¾" (19mm) Reinforced Union Elbow
29	MT29688	3/4" (19mm) Hex Nipple
30	MT29465	Elcometer RCV4000+ Remote Control Valve (see page 3-5)
31	MT29656	Petcock Valve Assembly (Red Handle)
32	MT30122-5	1½" (38mm) Male/Female Equal Union Taper Seat
33	MT29726	1½" (38mm) Pipe for Elcometer 24285H (84mm) (3.3")
34	MT29708	1½" (38mm) Equal Pitcher T
35	MT30094	1½" (38mm) Choke Valve Handle
36	MT29177	1½" (38mm) Choke Valve Handle Assembly (includes MT30094 Choke Valve Handle)
37	MT29710	1½" (38mm) 60° Cone Male/Male Adaptor
38	MT29658	1/4" (6mm) Ball Valve Assembly (Black Handle)
39	MT29660	1/4" (6mm) Airline Ball Valve Assembly (Black Handle)
40	MT28597	Exhaust Silencer Assembly (see page 3-7)
41	MT29692-4	Protection Guard for Elcometer 24285H
42	MT28616	Elcometer Inspection Hatch Door for Elcometer 24285H
43	MT28613	ElcoFit™ Door Sealing Gasket
44	MT29695	Elcometer Inspection Door Hatch Bolt - M16 x 110mm
45	MT28615	Inspection Hatch Door Yoke
46	MT29696	M16 Hexagon Flanged Nut
47	MT29697	Flat Washer (x8)
48	MT28636	Ø250mm (9.8") Diameter Wheel (x1)
49	MT28637	Ø350mm (13.8") Diameter Wheel (x1)
49 50	MT29698	Split Cotter Pin (x4)
50	THE PARTY OF THE P	
	MT29490-6	Elcometer RCV4000+ & Pipework Assembly Service Kit (contains items in orange)

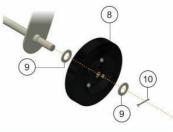




## Elcometer 75L Air Distribution Manifold





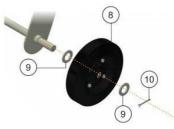


Spar	e Parts	
Item	Part Number	Description
1	MT30181	2" - 1½" BSP Reducing Bush
2	MT30183	2" BSPT Plain Plug Solid
3	MT30182	1½" BSPT Plain Plug Solid
4	MT30184	1¼" BSPT Plain Plug Solid (x4)
5	MT29681	1" BSPT Plain Plug Solid
6	MT30095	3/4" (19mm) Ball Valve Handle
7	MT28610	3/4" (19mm) Ball Valve Assembly (includes MT30095 Ball Valve Handle)
8	MT28636	Ø250mm (9.8") Diameter Wheel (x1)
9	MT29697	Flat Washer (x4)
10	MT29698	Split Cotter Pin (x4)
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)
20	MT29180	Elcometer Safety Label Kit

## Elcometer 150L Air Distribution Manifold





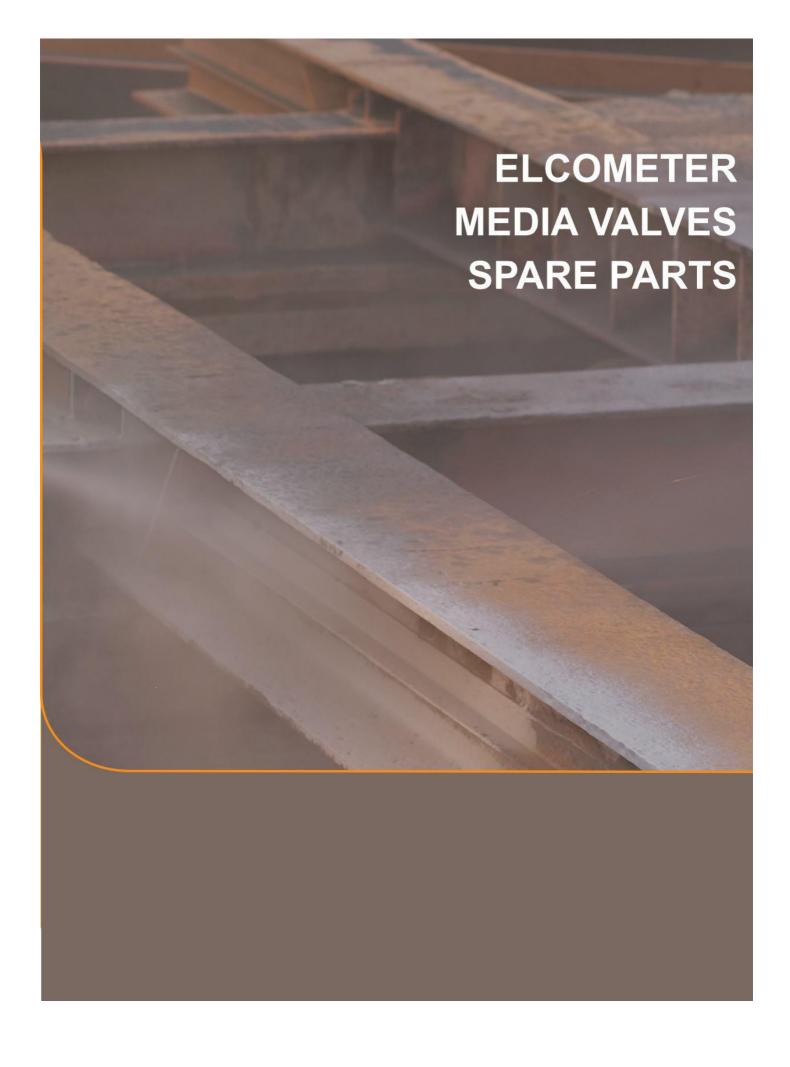


Spar	e Parts	
Item	Part Number	Description
1	MT30181	2" - 1½" BSP Reducing Bush
2	MT30183	2" BSPT Plain Plug Solid
3	MT30182	1½" BSPT Plain Plug Solid
4	MT30184	1¼" BSPT Plain Plug Solid (x4)
5	MT29681	1" BSPT Plain Plug Solid
6	MT30095	¾" (19mm) Ball Valve Handle
7	MT28610	3/4" (19mm) Ball Valve Assembly (includes MT30095 Ball Valve Handle)
8	MT28636	Ø250mm (9.8") Diameter Wheel (x1)
9	MT29697	Flat Washer (x4)
10	MT29698	Split Cotter Pin (x4)
11	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)
-	MT29180	Elcometer Safety Label Kit

## **Elcometer 300L Air Distribution Manifold**



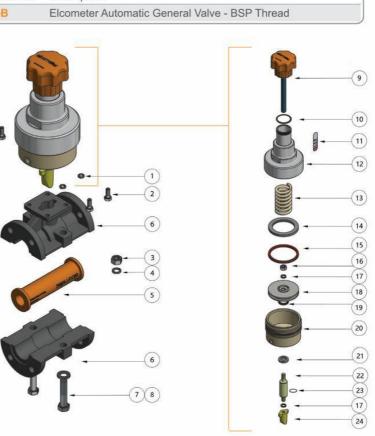
Spar	Spare Parts				
Item	Part Number	Description			
1	MT30180	3" x 2" BSP Reducing Bush			
2	MT30181	2" - 1½" BSP Reducing Bush			
3	MT30183	2" BSPT Plain Plug Solid			
4	MT30182	1½" BSPT Plain Plug Solid (x2)			
5	MT30184	1¼" BSPT Plain Plug Solid (x4)			
6	MT29681	1" BSPT Plain Plug Solid			
7	MT30095	3/4" (19mm) Ball Valve Handle			
8	MT28610	3/4" (19mm) Ball Valve Assembly (includes MT30095 Ball Valve Handle)			
9	MT28636	Ø250mm (9.8") Diameter Wheel (x1)			
10	MT29697	Flat Washer (x4)			
11	MT29698	Split Cotter Pin (x4)			
12	MT29601	Protective Edging Strip Kit (2.7m) (8.9ft)			
2	MT29180	Elcometer Safety Label Kit			



## Elcometer AGV

## **Elcometer Automatic General Valve**





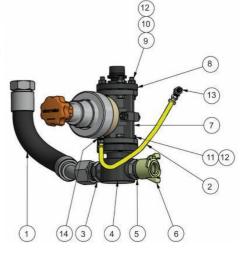
Item I	Part Number	Description	Item	Part Number	Description
1	KIT 1	M8 Steel Spring Washer (x4)	13	MT29996	Spring 56mm OD x 110mm
2	KIT 1	M8 x 20mm BSP Hex Bolt Grade 4.6 (x4)	14	KIT 4	Actuator Stop Ring
3	KIT 2	M12 Zinc Plated Steel Nut (x2)	15	KIT 4	Piston Seal 101.6 OD 88.9 ID
4	KIT 2	M12 Steel Spring Washer (x2)	16	KIT 3	M12 Zinc Plated Steel Nut
5	GV-LINER1	Rubber Valve Liner	17	KIT 3	M12 Steel Spring Washer (x2)
6	MT29993	AGV Valve Housing Body	18	MT29997	Actuator Piston
7	KIT 2	M12 Zinc Plated Steel Washer (x2)	19	KIT 4	Piston Seal 35 OD 25 ID
8	KIT 2	M12 x 70 Zinc Plated Hex Bolt (x2)	20	MT29998	Actuator Cylinder
9	MT29994	AGV Valve Handwheel & Shaft	21	KIT 4	Rod Wiper Seal Ø25mm Shaft
10	KIT 4	O Ring 3mm Cord x 44.5 ID	22	MT29999	Plunger Shaft
11	KIT 4	Valve Indicator Label	23	KIT 4	O Ring BS4518 0116-24
12	MT29995	Actuator Spring Housing	24	MT30001	Valve Plunger

Service Kits	ervice Kits					
Part Number	Description					
MT30044	AGV Service Kit 1 (contains items 1 & 2)					
MT30045	AGV Service Kit 2 (contains items 3, 4, 7 & 8)					
MT30047	AGV Service Kit 3 (contains items 16 & 17)					
MT29598	AGV Service Kit 4 (contains items 10, 11, 14, 15, 19, 21 & 23)					

## **Elcometer Automatic General Valve Assembly**

## **Elcometer AGV**

## Technical Specification Operating Temperature 0° to 60°C Max Working Pressure (WP) 15bar (217psi)



Part Numbe	Part Numbers			
Part Number	Description			
MT30065-1	Elcometer 1440 Full AGV Assembly complete with Pusher Line, Mixer T, AGV Automatic General Valve, Pot Flange, Pot Coupling & Airline Assembly			
MT30065-2	Elcometer 1460 Full AGV Assembly complete with Pusher Line, Mixer T, AGV Automatic General Valve, Pot Flange, Pot Coupling & Airline Assembly			
MT30065-3	Elcometer 20100 Full AGV Assembly complete with Pusher Line, Mixer T, AGV Automatic General Valve, Pot Flange, Pot Coupling & Airline Assembly			
MT30065-4	Elcometer 24200 Full AGV Assembly complete with Pusher Line, Mixer T, AGV Automatic General Valve, Pot Flange, Pot Coupling & Airline Assembly			
MT30065-5	Elcometer 24285 Full AGV Assembly complete with Pusher Line, Mixer T, AGV Automatic General Valve, Pot Flange, Pot Coupling & Airline Assembly			

Spc	ıre Parts					_	
Item	Description	Part Numbers					
		Model 1440	Model 1460	Model 20100	Model 24200	Model 24285	
1	11/2" 15bar Pusher Line Assembly complete with Swaged Hose	MT28609-1	MT28609-3	MT28609-5	MT28609-6	MT28609-6	
2	Elcometer Airline Assembly	MT29580-2	MT29580-3	MT29580-4	MT29580-5	MT29580-6	
3	11/2" Male/Male BSP Adaptor - 60° Cone			MT29710			
4	1½" Mixer T MT28553						
5	1½" BSP Forged Hex Nipple 3000lb	MT29014					
6	1½" BSP Claw Coupling	MT30002					
7	AGV Main Assembly	AGV-B					
8	11/4" to 1" Reducing Nipple Flange Assembly			MT28552			
9	M12 x 50 Zinc Plated Hex Bolt (x4)			KIT 5			
10	M12 Zinc Plated Steel Nut (x4)			KIT 5			
11	M12 x 40 Zinc Plated Hex Bolt (x4)			KIT 5			
12	M12 Zinc Plated Steel Washer Grade A (x12)	KIT 5					
13	1/4" BSP Male Female T Adaptor	MT30089					
14	1/4" BSP 60° Cone X BSP Adaptor	MT30086					
	AGV Service Kit 5 (contains items 9, 10, 11 & 12)	MT30048					

# Part Number Description GV-B Elcometer General Valve - BSP Thread

Spa	re Parts				
Item	Part Number	Description	Item	Part Number	Description
1	MT28557	GV Valve Stem Assembly	11	KIT 2	M12 x 70 Zinc Plated Hex Bolt (x2)
2	KIT 1	M8 x 30 Zinc Plated Hex Head Bolt (x4)	12	MT30166	GV Valve Handwheel & Shaft
3	KIT 3	GV Valve Indicator Label	13	KIT 3	O Ring 3mm Cord x 44.5 ID
4	MT29993	GV Valve Housing Body	14	KIT 3	General Valve Indicator Label
5	KIT 1	M8 Steel Spring Washer (x4)	15	MT30076	General Valve Stem Housing
6	KIT 1	M8 Zinc Plated Steel Nut (x4)	16	KIT 3	M6 Flat Nylon Washer
7	KIT 2	M12 Steel Spring Washer (x2)	17	MT30077	Valve Nut
8	KIT 2	M12 Zinc Plated Steel Nut (x2)	18	KIT 3	M12 Steel Spring Washer
9	GV-LINER1	Rubber Valve Liner	19	KIT 3	M6 x 25 Cap HD SKT Screw, ST STL
10	KIT 2	M12 Zinc Plated Steel Washer (x2)	20	MT30001	Valve Plunger

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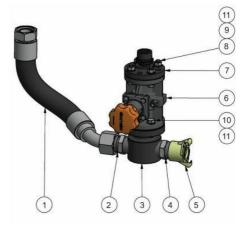
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Service Kits	Service Kits				
Part Number	Description				
MT30049	GV Service Kit 1 (contains items 2, 5 & 6)				
MT30045	GV Service Kit 2 (contains items 7, 8, 10 & 11)				
MT30050	GV Service Kit 3 (contains items 13, 14, 16, 18 & 19)				

## Elcometer General Valve Pusher Line Assembly

## Elcometer GV

Technical Specification	_	
Operating Temperature	0° to 60°C	
Max Working Pressure (WP)	15bar (217psi)	



Part Numbers		
Description		
Elcometer 1440 Full GV Assembly complete with Pusher Line, Mixer T, GV General Valve, Pot Flange, Pot Coupling & Airline Assembly		
Elcometer 1460 Full GV Assembly complete with Pusher Line, Mixer T, GV General Valve, Pot Flange, Pot Coupling & Airline Assembly		
Elcometer 20100 Full GV Assembly complete with Pusher Line, Mixer T, GV General Valve, Pot Flange, Pot Coupling & Airline Assembly		
Elcometer 24200 Full GV Assembly complete with Pusher Line, Mixer T, GV General Valve, Pot Flange, Pot Coupling & Airline Assembly		
Elcometer 24285 Full GV Assembly complete with Pusher Line, Mixer T, GV General Valve, Pot Flange, Pot Coupling & Airline Assembly		

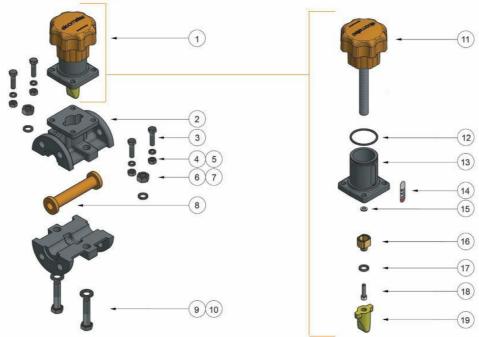
				E8 (9399) 19		
Item	Description			Part Number		
		Model 1440	Model 1460	Model 20100	Model 24200	Model 24285
1	11/2" 15bar Pusher Line Assembly complete with Swaged Hose	MT28609-1	MT28609-3	MT28609-5	MT28609-6	MT28609-6
2	11/2" Male/Male BSP Adaptor - 60° Cone		MT29710			
3	1 ½" Mixer T			MT28553		
4	11/2" BSP Forged Hex Nipple 3000lb	MT29014				
5	1½" BSP Claw Coupling			MT30002		
6	GV Main Assembly			GV-B		
7	11/4" to 1" Reducing Nipple Flange Assembly			MT28552		
8	M12 x 50 Zinc Plated Hex Bolt (x4)			KIT 5		
9	M12 Zinc Plated Steel Nut (x4)	- E		KIT 5		
10	M12 x 40 Zinc Plated Hex Bolt (x4)			KIT 5		
11	M12 Zinc Plated Steel Washer Grade A (x12)			KIT 5		
	GV Service Kit 5 (contains items 8, 9, 10 & 11)			MT30048		

## **Elcometer MGV**

## Elcometer Mini General Valve



Part Number	Description
MGV-B	Elcometer Mini Flat Valve for use with Elcometer 1020 - BSP Thread



Spa	re Parts				
tem	Part Number	Description	Item	Part Number	Description
1	MT28541	Mini General Valve Stem Assembly	11	MT30167	MGV Valve Handwheel & Shaft
2	MT30003	Mini General Valve Housing Body	12	KIT 3	O Ring 3mm Cord x 44.5 ID
3	KIT 1	M8 x 30 Zinc Plated Hex Head Bolt (x4)	13	MT30076	MGV Stem Housing
4	KIT 1	M8 Zinc Plated Steel Nut (x4)	14	KIT 3	Mini General Valve Indicator Label
5	KIT 1	M8 Steel Spring Washer (x4)	15	KIT 3	M6 Flat Nylon Washer
6	KIT 2	M12 Zinc Plated Steel Nut (x2)	16	MT30077	Valve Nut
7	KIT 2	M12 Steel Spring (x2)	17	KIT 3	M12 Steel Spring Washer
8	MGV-LINER1	Mini Rubber Valve Liner	18	KIT 3	M6 x 25 Cap HD SKT Screw, ST STI
9	KIT 2	M12 x 50 Zinc Plated Hex Bolt (x2)	19	MT30005	Mini Valve Plunger
10	KIT 2	M12 Zinc Plated Steel Washer Grade A (x2)			

Service Kits	
Part Number	Description
MT30049	MGV Service Kit 1 (contains items 3, 4 & 5)
MT30046	MGV Service Kit 2 (contains items 6, 7, 9 & 10)
MT30051	MGV Service Kit 3 (contains items 12, 14, 15, 17 & 18)

## **Elcometer Mini General Valve Pusher Line Assembly**

## **Elcometer MGV**

# Technical Specification Operating Temperature 0° to 60°C Max Working Pressure (WP) 15bar (217psi)



Part Numbers	
Part Number	Description
MT30067	Elcometer 1020 Full MGV Assembly complete with Pusher Line, Mixer T, MGV Mini General Valve, Pot Flange, Pot Coupling & Airline Assembly

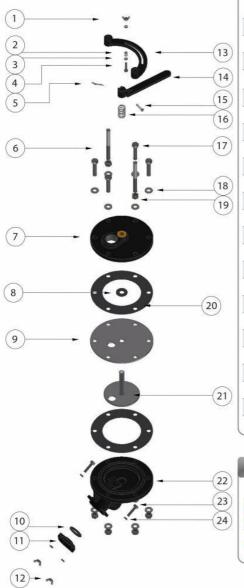
Spare Parts		
Item	Part Number	Description
1	MT28608-1	3/4" 15bar Pusher Line Assembly complete with Swaged Hose
2	MT28540	3/4" BSP 60° Cone x 1/2" Adaptor
3	MT29246	½" Flanged Equal T Assembly
4	MT29224	½" BSP Forged Hex Nipple 3000lb
5	MT30090	½" BSP Claw Coupling
6	MGV-B	MGV Main Assembly
7	MT28536	1¼" to ½" Reducing Nipple Flange Assembly
8	KIT 4	M12 Zinc Plated Steel Nut (x8)
9	KIT 4	M12 x 45 Zinc Plated Hex Bolt (x8)
10	KIT 4	M12 Zinc Plated Steel Washer Grade A (x16)
	MT30052	MGV Service Kit 4 (contains items 8, 9 & 10)

## Elcometer FV

## Elcometer Flat Valve



Part Numbe	umbers	
Part Number	Description	
FV-B	Elcometer Flat Valve - BSP Thread	



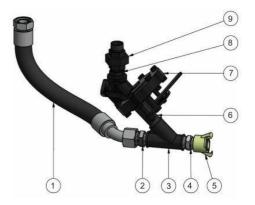
Spai	Spare Parts			
Item	Part Number	Description		
1	KIT 2	Wing Nut M6		
2	KIT 2	Spacer M6 x 11		
3	KIT 2	Washer M6 (x2)		
4	KIT 2	Bolt M6 x 30		
5	KIT 1	Air Hose, Steel Standard Safety Clip		
6	KIT 2	Long Bolt (M12) (x2)		
7	MT30078	Flat Valve Top Plate		
8	KIT 1	Flat Valve Top Plate Gasket		
9	MT30079	Flat Valve Middle Plate		
10	KIT 1	Bottom Cover Gasket		
11	MT30080	Flat Valve Bottom Cover		
12	KIT 2	Wing Nut M8 (x2)		
13	MT28578	FV Level Handle Guide		
14	MT30006	Flat Valve Handle		
15	KIT 1	Handle Pin		
16	KIT 1	Spring		
17	KIT 2	Bolt M12 x 50 (x4)		
18	KIT 2	Washer (x12)		
19	KIT 2	Nut M12 (x8)		
20	KIT 1	Gasket (x2)		
21	KIT 1	Flat Valve Shut Plate + Shaft		
22	MT30007	Flat Valve Bottom Plate		
23	KIT 2	Bolt M8 x 35 (x2)		
24	KIT 2	Washer M8 (x4)		

Service Kits	ce Kits	
Part Number	Description	
MT30153	FV Service Kit 1 (contains items 5, 8, 10, 15, 16, 20, & 21)	
MT30053	FV Service Kit 2 (contains items 1, 2, 3, 4, 7, 13, 18, 19, 20, 23 & 24)	

## Elcometer Flat Valve Pusher Line Assembly

## Elcometer FV

Technical Specification		_
Operating Temperature	0° to 60°C	
Max Working Pressure (WP)	15bar (217psi)	



Part Numbers		
Part Number	Description	
MT30068-1	Elcometer 1440 Full FV Assembly complete with Pusher Line, 45° Mixer, FV Flat Valve, Pot Union, Pot Coupling & Airline Assembly	
MT30068-2	Elcometer 1460 Full FV Assembly complete with Pusher Line, 45° Mixer T, FV Flat Valve, Pot Union, Pot Coupling & Airline Assembly	
MT30068-3	Elcometer 20100 Full FV Assembly complete with Pusher Line, 45° Mixer T, FV Flat Valve, Pot Union, Pot Coupling & Airline Assembly	
MT30068-4	Elcometer 24200 Full FV Assembly complete with Pusher Line, 45° Mixer T, FV Flat Valve, Pot Union, Pot Coupling & Airline Assembly	
MT30068-5	Elcometer 24285 Full FV Assembly complete with Pusher Line, 45° Mixer T, FV Flat Valve, Pot Union, Pot Coupling & Airline Assembly	

Item	Description			Part Number		
		Model 1440	Model 1460	Model 20100	Model 24200	Model 24285
1	1½" 15bar Pusher Line Assembly complete with Swaged Hose	MT28609-2	MT28609-4	MT28609-6	MT28609-7	MT28609-7
2	11/ <sub>2</sub> " (38mm) Male, 60° Cone x 1 <sup>1</sup> / <sub>4</sub> " Male Adaptor			MT30019		
3	11/4" BSP 45° T - Rubber Lined	10.		MT28562		
4	11/4" BSP Forged Nipple, 3000lbs			MT30009		
5	11/4" BSP Claw Coupling			MT30010		
6	11/4" BSP Nipple Medium EN 10255			MT30011		
7	FV Main Assembly			FV-B		
8	11/4" BSP Hex Nipple	j		MT30012		

## Elcometer MFV

## Elcometer Mini Flat Valve



Part Numbe	art Numbers	
Part Number	Description	
MFV-B	Elcometer Mini Flat Valve for use with Elcometer 1020 Blast Machine - BSP Thread	



Spar	e Parts		
Item	Part Number	Description	
1	KIT 1	Nut M8 (x4)	
2	KIT 1	Spring Washer M8 (x4)	
3	KIT 1	Washer M8 (x8)	
4	MT30150	Shut Off Valve Assembly	
5	MT30152	Gasket	
6	MT30151	Bottom Plate	
7	KIT 1	Bolt M8 x 50 (x4)	

Service Kits		
Part Number	Description	
MT30054	MFV Service Kit 1 (contains items 1, 2, 3 & 7)	

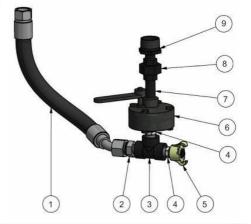
## **Elcometer Mini Flat Valve Pusher Line Assembly**

## **Elcometer MFV**

## Technical Specification

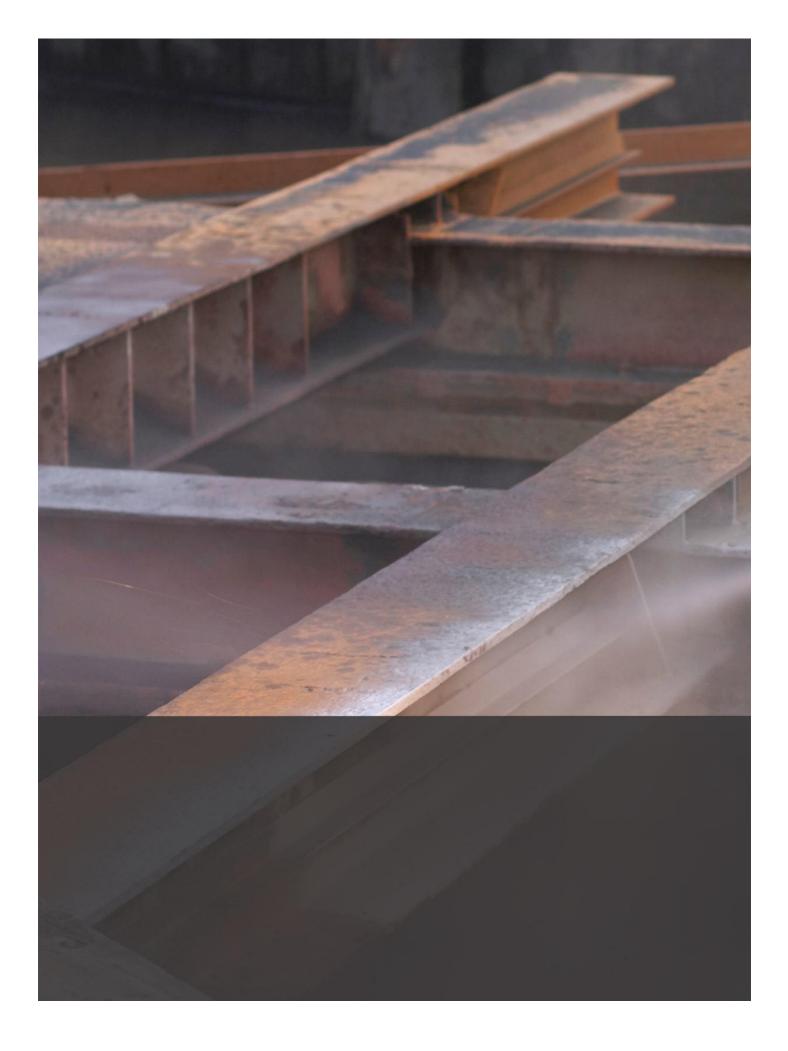
Operating Temperature 0 to 60°C

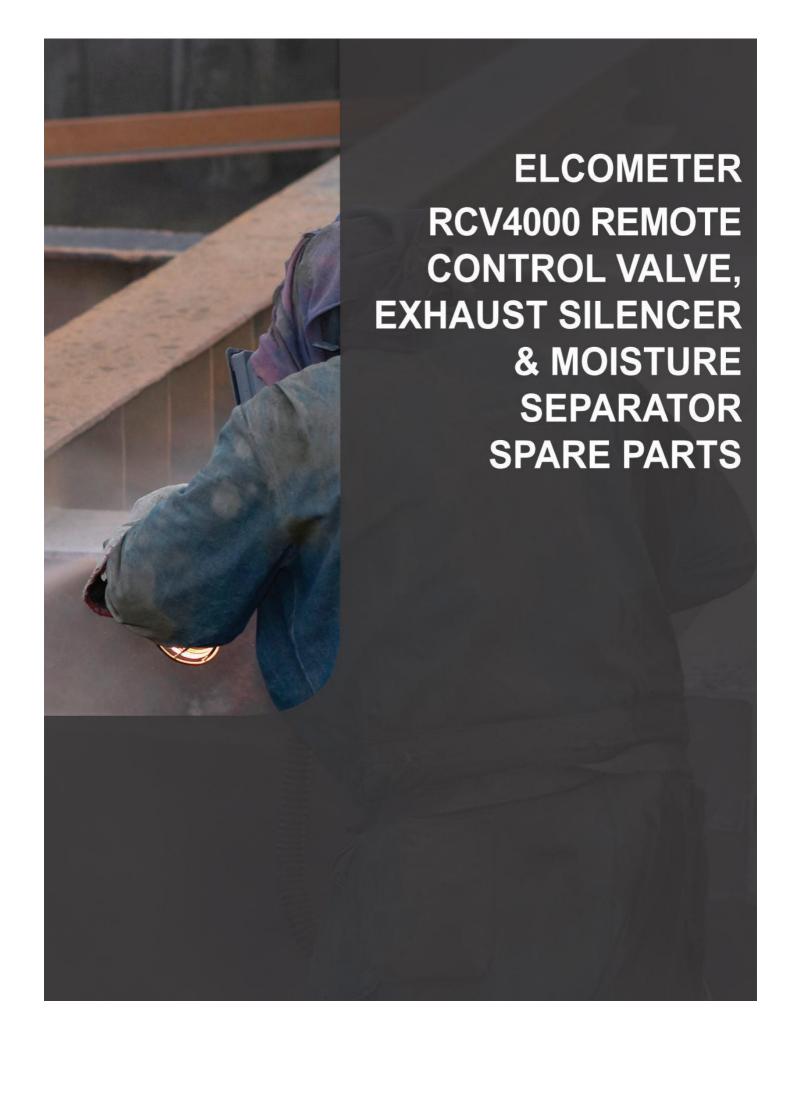
Max Working Pressure (WP) 15bar (217psi)



Part Numbers		
Part Number	Description	
MT30069	Elcometer 1020 Full MFV Assembly complete with Pusher Line, 45° Mixer T, MFV Mini Flat Valve, Pot Flange, Pot Coupling & Airline Assembly	

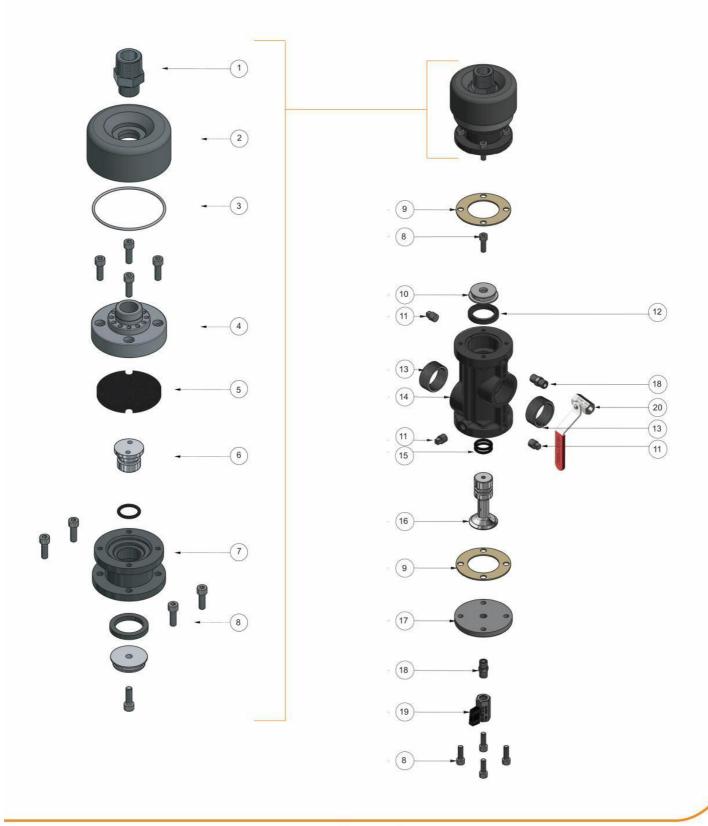
Spare Parts		
Item	Part Number	Description
1	MT28608-1	3/4" 15bar Pusher Line Assembly complete with Swaged Hose
2	MT28540	3/4" BSP 60° Cone x 1/2" Adaptor
3	MT28563	½" Flanged Equal T
4	MT29224	½" BSP Forged Nipple 3000lb
5	MT30090	½" BSP Claw Coupling
6	MFV-B	Mini Flat Valve Main Assembly
7	MT28567	½" Nipple 60mm
8	MT30020	½" Female/Female Union Taper Seat
9	MT30021	1¼" x½" Reducing Hex Nipple





Elcometer RCV4000 Exhaust Manifold

Elcometer RCV4000 Remote Control Valve



## Elcometer RCV4000+ Remote Control Valve



Part Numbers		
Part Number	Description	
MT28591	Elcometer RCV4000 Exhaust Manifold Assembly	
RCV4000-125B	1.25" RCV4000 Remote Control Valve	
RCV4000P-75B	0.75" RCV4000+ Remote Control Valve for use with Elcometer 1020 Blast Machines	
RCV4000P-150B	1.50" RCV4000+ Remote Control Valve for all other Elcometer Blast Machines	
RCV4000P-125B	1.25" RCV4000+ Remote Control Valve	
MT28604	Elcometer RCV4000 Air Manifold Assembly	

Spare	Parts		
Item	Part Number	Description	
1	MT30022	Male Adaptor 3/4" BSP to 1" BSP	
2	MT30023	Bleed-Off Manifold (BSP)	
3	KIT 1	O Ring BS4518 89.5 ID x 3.0 Cord	
4	MT30024	Top Cover (BSP)	
5	KIT 1	Rubber Valve Seat	
6	MT30025	Bleed-Off Valve	
7	MT30026	Bleed-Off Cylinder Housing	
8	KIT 2	M8 x 25 Hex Socket Cap Screws (x8)	
9	KIT 1	Gasket 90mm OD x 52 ID x 2mm Thick (x2)	
10	MT30081	Piston	
11	MT28596	1/4" Square Head BSP ST/ST Plug (x2)	
12	KIT 1	Piston Lip Seal 38 x 50 x 6 (x2)	
13	MT28594	11/2" x 11/4" BSP Reducing Bush	
14	MT30082	Remote Control Valve Body	
15	KIT 1	O Ring 3.53 Cord x 23.29 ID (x3)	
16	MT30083	Inlet Valve	
17	MT30084	Base Plate (BSP)	
18	MT30085	1/4" BSP Male Adaptor, Pneumatic	
19	MT28619	1/4" HP Ball Valve Female - Black Handle	
20	MT29656	Petcock - 1/4"HP Ball Valve Female - Red	
21	MT30086	1/4" BSP 60° Cone x 1/4" BSP Male Adaptor	
22	MT30087	RCV Manifold	
23	MT30099	1/2" BSP Plug Solid	
~	KIT 3	Allen Key	
-	KIT 3	RCV Tool	
4	MT30055	RCV Service Kit 1 (contains items 3, 5, 9, 12 & 15)	
	MT30056	RCV Service Kit 2 (contains item 8)	
	MT30072	RCV Service Kit 3	
-	MT28605	RCV Service Kit 4 (contains items 11 & 23)	

## Remote Control Valve Spare Parts

# Elcometer RCV4000 5

## **Exhaust Silencer**



Spare Parts		
Item	Part Number	Description
1	KIT 1	M6 Dome Nut (x6)
2	KIT 1	M6 Washer (x6)
3	MT30027	Exhaust Silencer Top Cover BSP
4	MT28598	Exhaust Silencer Cartridge - Plastic
-	MT30028	Exhaust Silencer Cartridge - Metal
5	MT30029	Exhaust Silencer Housing
6	MT30030	Exhaust Silencer Bottom Cover Plate
7	KIT 1	M6 x 220 Tie Bar (x3)
-	MT30057	SES Service Kit 1 (contains items 1, 2 & 7)



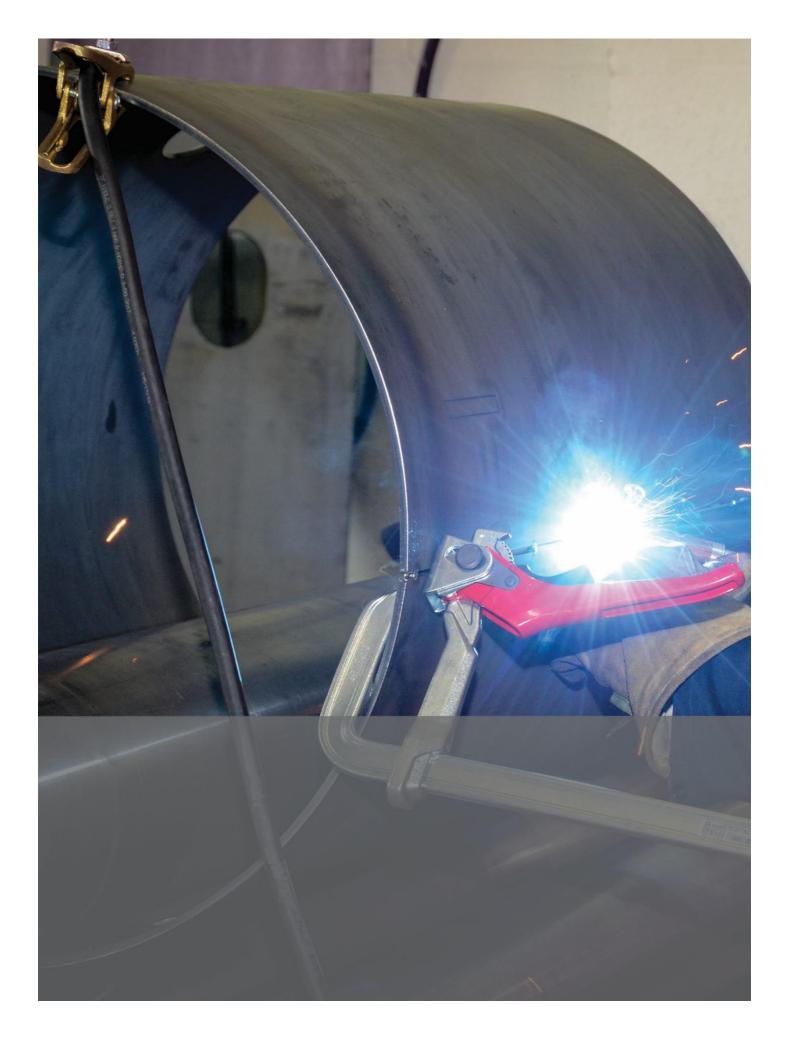
## Moisture Separator

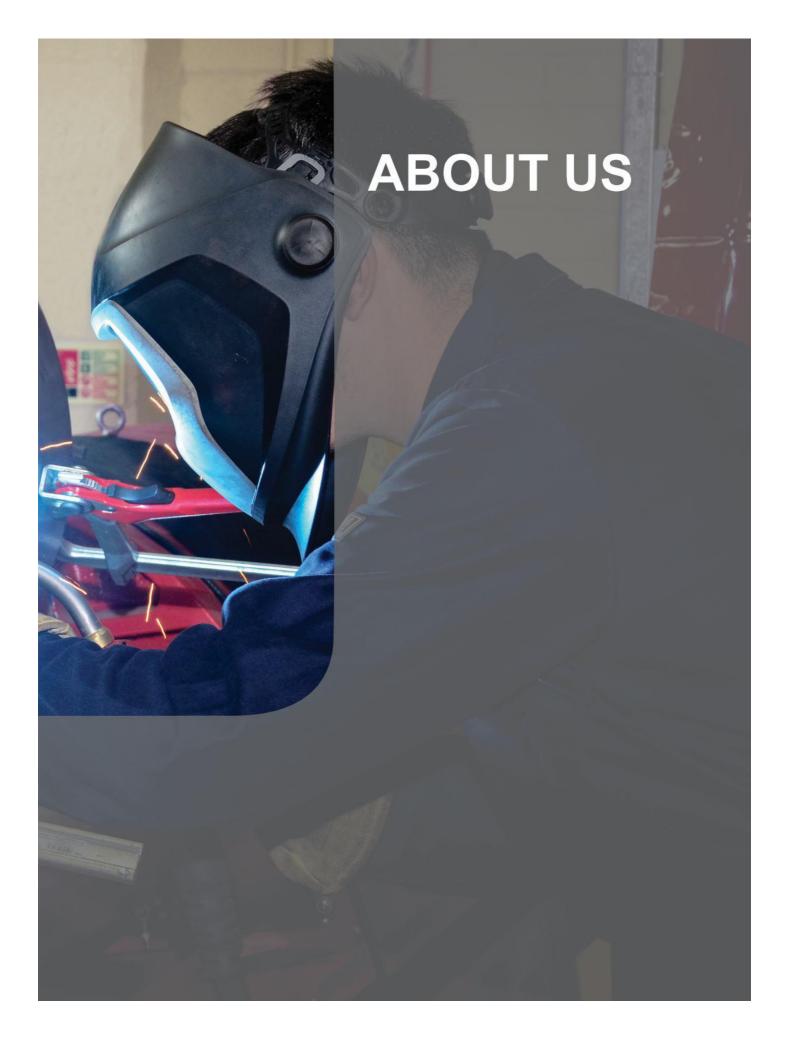
Part Numbers		
Part Number	Description	
MT28617	Elcometer 1½" Moisture Separator Assembly	

Spare Parts		
ltem	Part Number	Description
1	MT30031	Moisture Separator Top Manifold
2	MT30032	Threaded Steel Bar MS
3	MT30033	Moisture Separator Air Deflector
4	MT29435	Moisture Separator Filter Element
5	MT30034	Moisture Separator Plastic Dome
6	MT30035	Nut MS
7	MT29436	O-Ring For MMSI-32 and MSI-38 MS
8	MT30036	Moisture Separator Vessel
9	MT30037	Moisture Separator Holding Ring
10	MT30085	1/4" BSP Male Adaptor
11	MT28619	1/4" HP Ball Valve Female - Black











For more than seventy years Elcometer has been a world leader in the design, manufacture and supply of inspection equipment to the coatings, concrete and metal detection industry.

Elcometer's range of Abrasive Blast Machines, Valves and Accessories has been developed alongside our sister company Blast Equipment Limited and is the culmination of over 35 years of design, manufacture, sales and service of portable abrasive blast machines (ABMs) around the world.

Following a 'top-to-bottom' review of the design of abrasive blast machines and using Elcometer's & BEL's combined research, design and build experience, Elcometer are proud to offer a complete range of state-of-the-art products, accessories and spare parts.

## About Us

Ever since the first Elcometer gauge was manufactured in 1947, our philosophy has been to provide industry leading, innovative, high quality products; supported by a best-in-class customer experience at a competitive price. By concentrating on these core values, Elcometer has grown into a global network with representation in over 70 countries.

## Our Values

- Pride; we are proud of where we work and the work we do
- Ownership; we take responsibility for what we do and how we do it
- Ethics; we treat our customers, suppliers and colleagues fairly and with respect
- · Achievement; we believe that just enough is not enough
- Focus; we know that if it is not acceptable to us, it is not acceptable to our customers
- Initiative; we are encouraged to identify opportunities for improvement and offer solutions

## Safety is Our Priority

Manufactured in our brand new purpose built factory in Manchester, UK, each product is fully tested and compliant with the European Work Equipment Directive, European Machinery Directive and the European Pressure Equipment Directive. [PED 2014/68EU]



















## Quality is Part of our Culture

Elcometer's commitment to quality is reflected in our ISO 9001:2014 Quality and ISO 14001 Environmental certifications.

It is the Company philosophy to integrate quality into all aspects of the product - whether it be the initial product design, the manufacture of the product or in our commitment to our customers.

Elcometer is committed to reducing its impact on the environment, including product manufacture, packaging, catalogue production and our waste management. All our products are lead and mercury free and, where required, CE and RoHS compliant.

## Service and Support

Elcometer has Distributors in over 170 countries around the world, all comprehensively trained on our products, providing a full after sales service and support within your region. With the widest range of own manufactured products, Elcometer can provide a complete solution to all your inspection requirements.

## Training

Elcometer offers first class training on all its products to all our customers either at your facility or at our state of the art training facility in Manchester, England. For more information please contact us.

## Fit for Purpose

All Elcometer products are designed to comply with National and International Standards. We have a team of experts working with Standards bodies around the world, ensuring we have products fit for purpose, exceeding the demands of our customers.

We continuously review our products against current and new Standards. For the most up to date list of Standards, visit our online catalogue which provides the latest information on all new, current and superseded Standards which our products can be used in accordance with.

## Product Innovation

Elcometer continues to be a leader in product innovation for the inspection industries in both hardware and software design with a team of specialists dedicated to product development.

We are committed to continuously push the boundaries through our new product development programmes. Across the globe, Elcometer has been a leading innovator in coating inspection equipment for over 70 years.



The original Elco Meter was launched in 1947 and ever since, Elcometer has been a company of product innovation with a series of industry firsts.

1947 World's 'first' coating thickness gauge.

1959 World's first transistor based dry film thickness gauge.

1970 First pocket sized dry film thickness gauge with single tip probe.

1973 World's first single probe, dual ferrous, non-ferrous gauge.

1978 First digital dry film thickness gauge.

1981 First microprocessor based dry film thickness gauge.

1986 First dry film thickness gauge with alphanumerics.

2000 First menu driven, graphics display, dry film thickness gauge.

2007 First dry film thickness gauge with Bluetooth®.

2011 First dry film thickness gauge with user upgradeable firmware.

2012 First digital surface profile gauge for convex substrates.

2015 First ultrasonic thickness gauge with Bluetooth®.

2018 Launch of Elcometer's range of blast machines.

Our growth has been made possible through product innovation, investing in our people and concentrating on improving quality and productivity. This led to Elcometer gaining ISO 9001 accreditation in 1994, ISO 14001 in 2001 and ISO 9000:2015 in 2018.

But our development does not stop there. We have also continually upgraded our ElcoMaster® data management software for PC and mobile devices.

In the last six years ElcoMaster® has been downloaded by almost 40,000 users across the globe. However, the real key to our success is working in partnership with you, our customers.











## What is a Whip Hose?

Operators may find that using a standard blast hose is too heavy to work with all day and difficult to move. To combat this, a short length of lighter weight, more flexible blast hose can be fitted in between the nozzle and the standard blast hose – this is called a 'whip hose'. Consult the table below to choose the size of your whip hose in relation to the size of your main blast hose - in most circumstances this is one size down from your hose diameter.

## Whip Hose Selection Guide for blasting at 100psi nozzle pressure using garnet abrasive

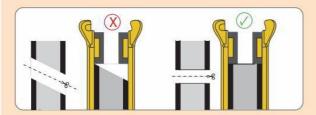
Nozzle Size		Extension Hose ID	Whip Hose ID	
4	1/4" (6mm)	1" (25mm)	3/4" (19mm)	
5	5/16" (8mm)	1¼" (32mm)	1" (25mm)	
6	3/4" (9.5mm)	1½" (38mm)	1¼" (32mm)	
7	7⁄16" (11mm)	1½" (38mm)	1¼" (32mm)	
8	½" (13mm)	2" (51mm)	1½" (38mm)	

For more information on Elcometer's range of hose, see page 5-2.

## Attaching the quick coupling to your blast hose

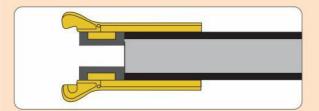
## Step 1

Using a blast hose cutter (see page 5-7), cut the end of your hose. Ensure that the end of the hose is perfectly square so it can seal against the flange face without creating any gaps, as this will cause premature failure. Drill four holes into the indents on the coupling.



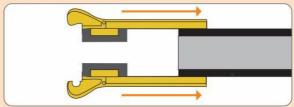
## Step 3

Wipe away any excess sealant from the inside of the hose and check there are no gaps between the hose and the coupling.



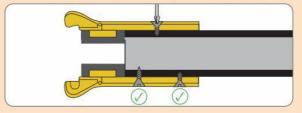
## Step 2

Apply a layer of sealant compound around the inside of the coupling. This helps create an air-tight seal extending the life of the coupling and will act as a lubricant to assist installation. Twist the coupling clockwise on to the hose until the hose end is firmly seated against the coupling flange face.



## Step 4

Fix the screws provided and tighten them securely. The screws will initially "push" the blast hose off the coupling wall. It is important that the screws continue to be tightened until the hose is securely attached to the coupling wall. Always re-cut the hose end when fitting a new or replacement coupling.



For more information on Elcometer's range of guick couplings, see page 5-12.

## Contractor Thread versus Fine Thread



## **Contractor Thread**

Industry standard thread at  $4\frac{1}{2}$  threads per inch (TPI) (114mm), this style greatly reduces the chance of cross threading and is much easier to install.



### **Fine Thread**

Fine thread is designed to work with smaller diameter hose and couplings.

## Whip Checks can save your life!

Manufactured from high strength corrosion resistant steel and designed for containing the coupling connection in case of accidental separation; the Elcometer whip check safety cable creates extra protection for the operator in the event of a coupling failure.

If couplings fail or disconnect at high pressure, serious injury can occur as the high pressure can cause the hose to thrash around, out of control, endangering the life of the blaster & those nearby.

By using the Elcometer whip check safety cables, the situation is better controlled as the couplings movement becomes far more restricted, giving you opportunity to shut down the air supply quickly and safely.

To prevent accidents whipchecks should be used at all connection points, such as:

- Between two hose couplings
- · Between hose & compressor couplings
- · Between hose & pot couplings
- Between hose & air distribution manifold couplings



## **Replacing Your Blast Nozzle**



A small increase in the nozzle size will result in a very large increase in air and abrasive consumption and adversely affect blasting efficiency. To ensure your nozzle provides continuous high production, it is recommended, replacing your nozzle when the orifice wears by 1 nozzle size, when a #2 nozzle becomes the size of a #3 nozzle, for example.

The Elcometer 103 Blast Nozzle Gauge can accurately and easily measure your blast nozzle's orifice size. See page 9-2 for more information.



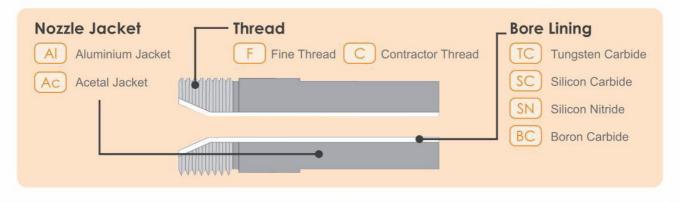
## **Nozzle Bore Size**

Using a larger nozzle orifice size produces a greater blast coverage area but requires a greater air capacity (cfm or m³/min) to 'power' the nozzle. A smaller nozzle size will typically produce a narrower blast pattern and consume less air. To maximise the potential benefits of using a larger nozzle diameter it is essential to 'supply' the nozzle with the correct air & media mix at sufficient speed and pressure. The choice of nozzle is therefore determined by the available air flow produced by the compressor. If a larger nozzle is chosen then to blast efficiently, a higher air capacity is required.

The table below shows the correlation between volume of air, nozzle size and nozzle pressure and is often used in the industry to select nozzle size. Its real benefit is to select the optimum nozzle size for the nozzle pressure required to carry out the job. If the user requires a nozzle pressure of 100psi (6.89bar) for optimum blasting and is using a ½" #8 nozzle diameter then they would need a 340cfm (9.63m³/min) rated compressor. If a 222cfm compressor is used then the resultant nozzle pressure using the same #8 nozzle would be reduced from 100psi to 60psi (4.14bar), meaning the blast efficiency would be reduced by 50%.

	Nozzle Pressure psi (bar)								Nozzle Size &
	50 (3.45)	60 (4.14)	70 (4.83)	80 (5.52)	90 (6.21)	100 (6.89)	125 (8.62)	150 (10.34)	Orifice Diameter
Volume of Air - cfm (m³/min)	12 (0.34)	13 (0.37)	15 (0.42)	17 (0.48)	19 (0.54)	21 (0.59)	25 (0.71)	29 (0.82)	<b>#2</b> 3.2mm - 1/8"
	25 (0.71)	30 (0.85)	34 (0.96)	38 (1.10)	42 (1.19)	46 (1.30)	56 (1.59)	67 (1.90)	#3 4.8mm - <sup>3</sup> / <sub>16</sub> "
	47 (1.33)	54 (1.53)	61 (1.73)	68 (1.93)	75 (2.12)	81 (2.30)	98 (2.77)	115 (3.26)	<b>#4</b> 6.35mm - ½"
	76 (2.15)	89 (2.52)	101 (2.86)	114 (3.22)	126 (3.56)	138 (3.90)	169 (4.78)	200 (5.66)	<b>#5</b> 8mm ⁵⁄₁₅"
	107 (3.02)	125 (3.54)	143 (4.04)	161 (4.55)	179 (5.06)	197 (5.57)	242 (6.85)	287 (8.12)	<b>#6</b> 9.5mm - ¾"
	149 (4.21)	171 (4.84)	193 (5.46)	215 (6.09)	237 (6.71)	259 (7.33)	314 (8.89)	369 (10.44)	# <b>7</b> 11mm - ¾6"
	193 (5.46)	222 (6.28)	252 (7.13)	281 (7.95)	310 (8.77)	340 (9.63)	412 (11.66)	485 (13.73)	#8 12.5mm - ½"
	305 (8.63)	353 (9.99)	401 (11.35)	449 (12.71)	497 (14.07)	545 (15.43)	665 (18.83)	785 (22.22)	<b>#10</b> 16mm - 5%"
	401 (11.35)	488 (13.81)	574 (16.25)	661 (18.71)	747 (21.15)	833 (23.58)	1050 (29.73)	1266 (35.84)	<b>#12</b> 19mm - ¾"

The figures in the table are approximate calculations based on a new/unused nozzle. Elcometer recommend that air flow rates from the compressor of greater than 50CFM (1.4 m³/min) should be used with these blast machines



# **Bore Lining**



# **Tungsten Carbide**

The least durable of the carbide nozzles, but relatively inexpensive & resistant to impact. It is ideal for areas when rough handling can't be avoided and mineral, glass or coal slag abrasives are being used.



# Silicon Carbide

Impact resistant and durable, like tungsten carbide, but approximately one-third of the weight, causing less operator strain. Ideal for jobs that require long periods of blasting.



# Silicon Nitride

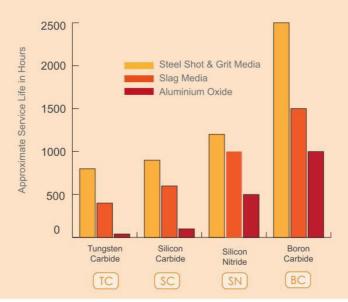
Silicon Nitride has outstanding wear resistant properties and as it is up to 50% lighter than other nozzles of the same size, can significantly reduce operator fatigue.

# BC

# **Boron Carbide**

Extremely hard wearing, durable and up to ten times the longevity of tungsten carbide. Ideal for aggressive abrasives.

# Nozzle Service Life in Hours\*



## Nozzle Jacket



# **Acetal Jacket**

Elcometer's acetal jackets are lightweight whilst still providing impact protection.



# **Aluminium Jacket**

Elcometer's aluminium jackets offer a very high level of protection against impact damage.

<sup>\*</sup>Estimated values for comparison. Actual service life will vary depending on blast pressure, media size and particle shape.





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## ENGLAND

Elcometer Limited

Tel: +44 (0)161 371 6000 Fax: +44 (0)161 371 6010 sales@elcometer.com www.elcometer.com

#### FRANCE

Elcometer Sarl
Tel: +33 (0)2 38 86 33 44
Fax: +33 (0)2 38 91 37 66
fr\_info@elcometer.com
www.elcometer.fr

## GERMANY

Elcometer Instruments GmbH

#### AALEN

Tel: +49(0)7361 52806 0 Fax: +49(0)7361 52806 77

#### LEER

Tel: +49 (0)7361 528 06 60 Fax: +49 (0)7361 528 06 68

de\_info@elcometer.com www.elcometer.de

### THE NETHERLANDS

Elcometer B.V. Tel: +31 (0)30 259 1818 Fax: +31 (0)30 210 6666 nl\_info@elcometer.com

www.elcometer.nl

## JAPAN

Elcometer KK
Tel: +81 (0)3 6869 0770
Fax: +81 (0)3 6433 1220
jp\_info@elcometer.com
www.elcometer.co.jp

## REPUBLIC OF SINGAPORE

Elcometer (Asia) Pte Ltd Tel: +65 6462 2822 Fax: +65 6462 2860 asia@elcometer.com www.elcometer.com

## UNITED ARAB EMIRATES

EL Inspection & Blasting Equipment LLC Makani: 31678 94023 Tel: +971 4 295 0191 Fax: +971 4 295 0192 uae\_sales@elcometer.com www.elcometer.ae

## USA

## MICHIGAN

Elcometer Inc Tel: +1 248 650 0500 Toll Free: 800 521 0635 Fax: +1 248 650 0501 inc@elcometer.com www.elcometer.com

## TEXAS

Elcometer of Houston Tel: +1713 450 0631 Toll Free: 800 521 0635 Fax: +1713 450 0632 inc@elcometer.com

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