



TYPICAL ABRASIVE BLASTING SYSTEM LAYOUT



AIR SUPPLY CHAIN

① – ⑤

Compressor · After Cooler · Receiver Tank · Breathing Air · Airline Filter

BLAST POT SYSTEM

⑥ – ⑬

Remote Valve · Blast Pot · Metering Valve · Moisture Sep · Blast Hose · Control Hose · Couplings · Deadman Handle

OPERATOR EQUIPMENT

⑭ – ⑱

SAR Helmet · Blast Suit & Gloves · Airline Hose · Nozzle Holder · Blast Nozzle

- 1 Industrial Air Compressor**
Customer supplied — 185-900 CFM @ 100-150 psi
- 2 Air Driven After Cooler**
PanBlast™ ACC-250 / ACC-400 / ACC-750 / ACC-950
- 3 Compressed Air Receiver Tank**
Buffer / storage vessel — stabilises supply pressure
- 4 Breathing Air Compressor**
Customer supplied — Grade D / EN12021 breathing air
- 5 PBF II / VisiFlo Airline Filter**
Breathing air purification — oil, moisture & dust removal

- 6 UniFlo Remote Control Valve**
UniFlo combination inlet & exhaust deadman valve
- 7 Pressure Blast Pot — BP Series**
BP316-2 / BP600-1 · 100-200 L · 125-150 psi rated
- 8 Abrasive Metering Valve**
Corsa II / Fina II — precise abrasive-to-air ratio
- 9 Moisture Separator**
32 mm port · 40 micron sintered bronze filter
- 10 Blast Hose Assembly**
19 / 25 / 32 mm bore · NTC / STC couplings
- 11 Twinline Remote Control Hose**
Colour-coded pilot air lines · 10 m / 20 m assembly
- 12 NTC / NHC Nylon Couplings**
BAC-HC-PB series · injection-moulded · spring lock pins
- 13 AirFlo / AirStop Deadman Handle**
Pneumatic safety deadman — immediate shutoff on release

- 14 Titan II / Cosmo SAR Helmet**
EN14594:2018 Class 4B certified supplied air respirator
- 15 Leather Blast Suit & Gloves**
Full-body protection from rebounding abrasives
- 16 Respirator Airline Hose**
19 mm breathing air hose from filter to SAR helmet
- 17 Nylon Nozzle Holder (NNH)**
NNH-0 / NNH-1 · injection moulded · 3/4" or 2" thread
- 18 ABN / ATN Blast Nozzles**
Boron carbide (ABN) or tungsten carbide (ATN) · aluminium jacket





EQUIPMENT COMPONENT SPECIFICATIONS

Cross-Referenced PanBlast™ Product Guide

The numbered diagram on the preceding page illustrates a complete open abrasive blasting system. The table below provides the PanBlast™ product name, catalogue reference, and key specification for each numbered component. All products are manufactured to international standards and available through your local PanBlast™ distributor.

① – ⑤ AIR SUPPLY CHAIN

#	Component	PanBlast™ Product	Model / Code	Key Specification & Function
1	Industrial Air Compressor	Industrial Air Compressor (customer-supplied)	—	High-volume compressed air source for the blasting system. Typically 185–900 CFM at 100–150 psi. Powers the blast pot and breathing air compressor.
2	Air Driven After Cooler	PanBlast™ Air Driven After Cooler	ACC-250 / ACC-400 / ACC-750 / ACC-950	Portable air-cooled heat exchanger. No electrical supply required — air motor driven. Reduces compressor discharge air temperature; removes up to 90% moisture contamination.
3	Compressed Air Receiver Tank	Compressed Air Receiver / Buffer Tank (customer-supplied)	—	Stores and stabilises compressed air supply pressure. Provides constant, pulse-free air supply to blast pot and breathing air systems. Reduces compressor cycling.
4	Breathing Air Compressor	Dedicated Breathing Air Compressor (customer-supplied)	—	Dedicated compressor producing Grade D (NIOSH) / EN12021 (CE) breathing air. Supplies clean air to the airline filter for operator SAR helmets.
5	PBF II / VisiFlo Airline Filter	PBF II-1 / VisiFlo-S Respirator Airline Filter	BAC-AF-0273-00 (VisiFlo-S)	Freestanding breathing air filtration. Removes water vapour, oil mist and particulates. Pressure regulator, gauge and relief valve included. Meets NIOSH Grade D / EN12021 / AS/NZS1715.

⑥ – ⑬ BLAST POT SYSTEM

#	Component	PanBlast™ Product	Model / Code	Key Specification & Function
6	UniFlo Remote Control Valve	PanBlast™ UniFlo Remote Control Valve	BAC-RC series	Combination inlet and exhaust valve. Simultaneously controls pressurisation and depressurisation of the blast pot via pneumatic or electric deadman handle signal. Fast, efficient operation.
7	Pressure Blast Pot — BP Series	PanBlast™ BP316-2 / BP600-1 / BP600-2	BEP-PS-0064-05 / BEP-PS-0077-00	Certified pressure vessel. 100–200 litre abrasive capacity, 125–150 psi rated. Wide all-terrain pneumatic wheels. Complete with moisture separator, pressure gauge and safety relief valve.
8	Abrasive Metering Valve	Corsa II / Fina II Precision Abrasive Metering Valve	BAC-AM-PB series	Plunger-type precision metering valve. Automatically regulates abrasive feed to blast hose (Corsa II = auto on/off with manual feed adjustment). Provides precise, consistent abrasive-to-air ratio.
9	Moisture Separator	PanBlast™ Moisture Separator	BAC-AF-PB-0089 (32mm port)	40-micron sintered bronze filter sleeve. Removes moisture and particulates from compressed air supply to blast pot. Prevents clogging from wet abrasives and moisture in the blast stream.
10	Blast Hose Assembly	Rubber Blast Hose + NTC / STC Couplings	BAC-HB-PB series	19mm / 25mm / 32mm bore reinforced rubber blast hose. Coupled with nylon (NTC, lightweight) or steel (STC, heavy-duty) twist-lock couplings. Safety whip-check cables recommended.
11	Twinline Remote Control Hose	PanBlast™ Twinline Remote Control Hose	BAC-RC-PB-0012 (20m) / BAC-RC-PB-0013 (10m)	Colour-coded pilot air hose pair (supply and return). Carries the pneumatic control signal between the operator's deadman handle and the remote control valve on the blast pot.
12	NTC / NHC Nylon Couplings	PanBlast™ Nylon Hose & Pot Couplings	BAC-HC-PB-0001 (NHC-1) / BAC-HC-PB-0009 (NTC-1)	Injection-moulded nylon couplings for connecting blast hoses (NHC) or attaching hose to the blast pot (NTC). Tough, lightweight, precise fit. Pre-installed spring-loaded safety lock pins.
13	AirFlo / AirStop Deadman Handle	AirFlo Pneumatic / AirStop Pneumatic Control Handle	BAC-RC-PB-0085 / BAC-RC-PB-0084	Pneumatic safety deadman handle. AirFlo = air-bleed type (hissing sound when active). AirStop = non-bleed type (silent). Immediately stops blasting if the operator releases the handle.

⑭ – ⑱ OPERATOR EQUIPMENT

#	Component	PanBlast™ Product	Model / Code	Key Specification & Function
14	Titan II / Cosmo SAR Helmet	Titan II SAR / Cosmo SAR / Galaxy SAR Helmet	Titan II · Cosmo SAR · Galaxy	Certified Supplied Air Respirator blast helmet. Titan II: EN14594:2018 Class 4B / AS/NZS1716. Protects from rebounding abrasive, dust, debris and excessive noise. Optional Air Cooling / Climate Controller.

#	Component	PanBlast™ Product	Model / Code	Key Specification & Function
15	Leather Blast Suit & Gloves	PanBlast™ Leather / Lightweight Blast Suit	PanBlast™ Blast Suit range	Full-body protection from rebounding abrasives. Leather fronts for solid protection; cotton back for breathability and ventilation. Available in 4 sizes (S–XL). Leather blast gloves included.
16	Respirator Airline Hose	PanBlast™ Breathing Airline Hose	BAC-AF-PB series	19mm (3/4") yellow breathing air supply hose. Delivers Grade D / EN12021 breathing air from the PBF II / VisiFlo airline filter to the operator's SAR blast helmet.
17	Nylon Nozzle Holder (NNH)	PanBlast™ Nylon Blast Nozzle Holder	BAC-NZ-PB-0021 (NNH-0) / BAC-NZ-PB-0022 (NNH-1)	Lightweight injection-moulded nylon nozzle holder (NNH). Available for all standard blast hose sizes with 19mm (3/4") or 50mm (2") nozzle threads. Durable, inexpensive and free from galling. Attachment screws and nozzle washer included.
18	ABN / ATN Blast Nozzles	PanBlast™ ABN Boron Carbide / ATN Tungsten Carbide Blast Nozzles	ABN: BAC-NZ-PB-0016–0020 · ATN: BAC-NZ-PB-0006–0010	Available in boron carbide (ABN — lighter, longer wear) or tungsten carbide (ATN — for steel abrasives). Aluminium-jacketed long venturi profile. Sizes #4–#8 (6.4mm–12.5mm bore). 32mm throat entry.

Note: All PanBlast™ products are designed and manufactured in accordance with international standards. Product specifications, model numbers and approvals may vary by region. Contact your local PanBlast™ distributor or visit www.panblast.com for current product details, pricing and availability.