

Airblast Tech Tips

Daily Checklist Blasting -and Safety Components



AIRBLAST

Blasting Components	Daily check list	Recommended for optimum performance
Air Compressor		
• Fully maintained and serviced	<input type="checkbox"/>	
• Capable of 8 bar (125psi) discharge pressure	<input type="checkbox"/>	
• Located upwind and away from the blasting area	<input type="checkbox"/>	
• High volume output, > 8,5 m ³ /min. (> 300 cfm) per nozzle based on nozzle size requirements plus 50% wear allowance plus 0,8 m ³ /min. (30 cfm) of quality breathing air per operator.		<input type="checkbox"/>
• High temperature safety cut out		<input type="checkbox"/>
• Oil and particulate filter separator		<input type="checkbox"/>
Air Supply Hose		
• Large bore hose (minimum 4 times nozzle orifice)	<input type="checkbox"/>	
• Lockpins and/or whipchecks installed	<input type="checkbox"/>	
Air Moisture Separator		
• Regularly cleaned and maintained	<input type="checkbox"/>	
• Compressed air moisture removal system with final moisture separator		<input type="checkbox"/>
• Large porting		<input type="checkbox"/>
Blast Machine		
• Check & maintain remote control valve system	<input type="checkbox"/>	
• Check & maintain abrasive metering valve and fittings	<input type="checkbox"/>	
• Cover and screen fitted	<input type="checkbox"/>	
• Approved design		<input type="checkbox"/>
Blast Abrasives		
• Keep dry and protected	<input type="checkbox"/>	
• Small palletized bags or bulk bags	<input type="checkbox"/>	
• Safe, approved, productive, abrasive media		<input type="checkbox"/>
• Free of harmful substances (health or environmental)		<input type="checkbox"/>

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Blast Hose		
<ul style="list-style-type: none"> • Keep as straight and as short as possible – check for wear or soft spots 	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Abrasive resistant hose sized 3–5 times the nozzle orifice 		<input type="checkbox"/>
Blast Couplings/Connectors		
<ul style="list-style-type: none"> • Check for gasket and component wear, and air leaks 	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Lockpins and/or whipchecks installed 		<input type="checkbox"/>
Remote Control Handle		
<ul style="list-style-type: none"> • Check and maintain for safe operation 	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Pneumatic or electric operation 		<input type="checkbox"/>
<ul style="list-style-type: none"> • Optional abrasive cut off control 		<input type="checkbox"/>
Blast Nozzle		
<ul style="list-style-type: none"> • Check for air pressure and liner/thread wear or damage 	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Sized to suit air and workpiece requirements 	<input type="checkbox"/>	
<ul style="list-style-type: none"> • Long venturi (and other designs) with durable wear liner 		<input type="checkbox"/>

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Safety Components	Daily check list	Recommended for optimum performance
Breathing Air Source		
• Checked and maintained on a regular basis	<input type="checkbox"/>	
• Located in a clean air atmosphere, upwind and away from the blast area and engine exhaust fumes	<input type="checkbox"/>	
• Approved air compressor or dedicated breathing air compressor or air pump or bottled breathing air or other approved supply		<input type="checkbox"/>
Breathing Air Filter		
• Cartridges require regular programmed replacement	<input type="checkbox"/>	
• Filters and regulates the breathing air supply	<input type="checkbox"/>	
Carbon Monoxide Monitor		
• Checked, tested and calibrated on a routine basis	<input type="checkbox"/>	
• Samples air and safeguards against toxic, carbon monoxide gas		<input type="checkbox"/>
• Ensures carbon monoxide level is below 11 mg/m ³ (10ppm)		<input type="checkbox"/>
Breathing Air Line		
• Approved and marked		<input type="checkbox"/>
Climate Control Tube		
• Air temperature within 15°C – 25°C range for operator comfort	<input type="checkbox"/>	
• Complies with requirements		<input type="checkbox"/>
• Free of harmful substances (health or environmental)		<input type="checkbox"/>
Blasting Helmet		
• Inspected and maintained for wear and tear to the cape, collar, head gear and visor as per requirements	<input type="checkbox"/>	
• Inner lens in place for impact protection	<input type="checkbox"/>	
• Supplied with minimum 170 ltrs/min. breathing quality air	<input type="checkbox"/>	
Air quality regularly tested and test records maintained to check the following levels of contaminants: - Oil below 1 mg/m ³ - Carbon Monoxide below 11 mg/m ³ (10 ppm) - Carbon Dioxide below 1400 mg/m ³ (800 ppm) - Oxygen between 19.5 and 22.0%	<input type="checkbox"/>	

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Safety Components	Daily check list	Required for optimum operation
Blasting Helmet		
• Earplugs and/or earmuffs essential for hearing protection		<input type="checkbox"/>
• Optional communication equipment		<input type="checkbox"/>
Other Protective Clothing		
• Leather gloves	<input type="checkbox"/>	
• Blasting suit/protective overalls	<input type="checkbox"/>	
• Safety footwear		<input type="checkbox"/>
Work Hazards, check, control and eliminate wherever possible:		
• Physical dangers – tripping, falling, crushing	<input type="checkbox"/>	
• Toxic substances e.g. lead, arsenic, cyanide, heavy metals, chromates, free silica, etc. present either in the abrasive, the coating, the substrate or the environment.	<input type="checkbox"/>	

DISCLAIMER: The above information is only a guide and does not represent nor claim to be either a full or complete or accurate nor an approved or standard method of checking blast cleaning equipment or components. It is the responsibility of the reader and/or users of this information to separately determine and verify each and/or any guideline, regulations, tests, checks, etc. for equipment and/or setup as directed or indicated or required in or by any work specifications and/or standards. Airblast explicitly disclaims any liability for the use or misuse of the above information.