

www.Dawson-Macdonald.com

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Dawson-Macdonald Company

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Weekly

Regularly

Blasting tips and updates are seen at www.BlastPrep.com

Preventive Maintenance for Blasters: Automation, Rooms & Cabinets

Preventive maintenance, proper training, type of abrasive used, and how the system is used drastically affects productivity & downtime, as well as actual service intervals required. Use this guide in conjunction with your Operating Manual – please refer to it for proper installation, operation, safety, troubleshooting tips, recommended spare parts, and other useful information.

Upon Start-up every day:

Helpful tips:

- ✓ Drain moisture. Compressed air source must be clean and dry!
- ✓ Verify blast pressure ____PSI. Lowest pressure that gets the job done right in the required time.
- ✓ Check & (if necessary) adjust blast flow. Make it a 'lean' mix a 'shadow' from nozzle.
- ✓ Correct any safety deficiencies. –Never operate an unsafe machine.
- ✓ Report and fix any operational problems.
 Check integrity, wear, & condition of unit.
- ✓ Clean machine and sweep area. Use safety matting when using round media: shot or bead.

And every four hours:

- ✓ Pushbutton clean dust collector filters If not automated; Push-button shaker style or pulse jet.
- ✓ Empty dust collector (s).
 Use dust mask; clean up afterwards.
- ✓ Add abrasive (don't overfill).
 Use (optional) sight plugs on direct-pressure systems.
- ✓ Inspect blast media in the hopper & dust in the collector

Monitor dust collector gauge for aging filters...

Monitor exhaust of dust collector for any emissions...

Note: Do NOT take filters out for "cleaning." Do not blow them off.

Only when too much good media is found in the dust, or if too much dust is in the working mix of media should you readjust the reclaimer (or air wash) tuning or damper. Give replacement dust collector filters a week to "season" before re-tuning the system. Let the adjustments "take hold" for several hours before re-inspection and re-tuning.

Periodic Inspection Recommendations

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Blast s	systems:	Interval (hours):
0	Inspect nozzle for wear (+1/16" is worn, measured with drill bit or test mandrel) 40200
0	Inspect nozzle washer	880
0	Inspect blast hose for soft spots	Daily
0	Inspect couplings & their gaskets; use appropriate lube when reassembling	40200
0	Check for safety pins & whip checks on couplings	Regularly
0	Check for rapid shutdown of:	
	♣ Foot treadle on cabinet	Monthly
	♣ OSHA door interlock switch(es)	Weekly
	Deadman on portable systems and blast rooms	Weekly
0	Check air hoses for leaks, deterioration, or loose fittings	Monthly
Reclai	mer and dust collector:	
0	Clean reclaimer screen	840
0	Clean (optional) reclaimer magnet	840
0	Inspect conveying hose, if standard duty style	40-200
0	Inspect conveying hose, if heavy duty style	5001000
	(if the blast room PRS is continuously "on", then inspect the hose	Weekly
0	Inspect dust hose or duct	5001000

 Thoroughly inspect all gaskets including reclaimer access door & dust dump door, or drum lid gasket...
 Monthly

Cabinet:

0	Inspect gloves	840
0	Check lights for operation (replace using appropriate gasket)	40
0	Clean/replace safety glass or optional protector	Daily or as needed
0	Inspect/replace air inlet filters	Bi-weekly
0	Inspect door gaskets	Biannually
		-

Direct-pressure systems:

0	Inspect sealing ring and plunger	5001000
0	Inspect exhaust hose & hose barbs or couplings	5001000
0	Inspect exhaust valve with standard ceramic restrictor	200
0	Inspect exhaust valve with (optional) boron restrictor	10002000
0	Inspect pinch tube in grit valve	5001000
0	Inspect air & grit valve diaphragms and springs	1000
0	Clean sight plugs, re-seal and tighten	As needed

Suction (siphon) systems:

0	Clean & rotate air jet when using glass bead and non-harsh media	2001000
0	Clean & rotate air jet when using harsh media	200

Accessories:

0	Inspect/grease turntable bearings and cart wheels	Biannually
0	Check vertical door seals and integrity	Monthly
0	Replace rubber curtains and other protective or wear-prone surfaces	As needed

Blast Rooms:

0	Respirator system	Daily
0	Clean or replace Lexan® covers on lights	5001000
0	Replace air inlet filter on Bullard Free-Air Pump	500
0	Replace carbon exhaust filter on Bullard Free-Air Pump	200
0	Replace large element in your Personal Air Filter	If odors detected
0	Recalibrate CO Monitor (record in logbook for OSHA)	Monthly
0	Inspect recovery trough	5001000

Supplies (available at 1-800-556-4456):

Check spare parts and media inventory, and reorder accordingly...

Weekly

A thorough Preventive Maintenance & Training program is available through Dawson-Macdonald, utilizing our highly experienced staff – and highly recommended every six months for most operations, under normal 8-hour working conditions.

<u>About Us:</u> Dawson-Macdonald is the most experienced full-service, stocking supplier for all of your abrasive blasting and dust collection needs.

We're brick and mortar and nearby – for fast service.

Parts – Service – Rentals – Blast Lab – Preventative Maintenance Equipment – Abrasives – Advice.

Use of an hour meter (measuring actual blasting hours) is highly advised.

Also keep a logbook.





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