

## BLASTING

APPLICATION FOCUS



The Farr Gold Series cartridge dust and fume collector combines enhanced performance with ease of service while cleaning the work environment of irritating dust and fumes.



GS20 on Aluminum Shot Blasting

### BENEFITS OF THE FARR GOLD SERIES®

- High-entry, cross-flow, inlet eliminates upward air velocities that can hold fine powder up in the filters, reducing re-entrainment of the fine particles.
- Vertically arranged filters shed all the metal particulate - vs. horizontal filters which allow the metal to build on top of the filters.
- High efficiency filters stop 99.99% (at 0.5 $\mu$ ) of the dust!
- Specially treated filter media repels fine particles for lower pressure drop and long filter life.
- Gold Cone provides 25% more media for long service life.

### BLASTING APPLICATIONS

- Blasting is a very diverse market made up of wheel blasters, air blasters and cabinet blasters. The blasting media also varies widely from sand, steel, plastic, slag and various shot. This document focuses on wheel blasting and large blast rooms. Camfil APC has over 600 Farr Gold Series on these applications and numerous Tenkays.

### SAFETY CONSIDERATIONS

- When blasting aluminum, extra safety precautions must be taken. The collector must be outside and have explosion vents, fire retardant cartridges and sprinklers. No ferrous materials can be mixed with a dust collector filtering aluminum dust. If any other flammable materials are being blasted, then consult our factory for extra safety precautions.
- When recirculating air, precautions should be taken to meet all OSHA and government guidelines. In many cases, a safety monitoring after filter is required.
- Extra caution should be taken when blasting with silica sand to protect workers from airborne silica dust.

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Two Farr Gold Series on abrasive blasting booths and booth recovery system.

### SIZING RECOMMENDATIONS

Wheel blasting generates a very concentrated dust stream compared to room air blasting. The blasting media is usually steel shot. The dust that makes it to the dust collector is a combination of carbon mill scale, steel powder and rust. The density is several hundred pounds per cubic foot. When cleaning carbon steel, an FGS with HemiPleat cartridges can run about 1:5 to 2:1 AC ratio. If the process runs 24 hours a day, then it should be around 1.5:1. We also recommend the abrasive resistant inlet option to extend filter life. When blasting stainless steel, we recommend staying at or below 1.5:1. Consult factory if blasting anything unusual like plastic or specialty alloys. These materials may be flammable and extra precautions are needed. Also, adequate ventilation of the blast chamber is required or overheating can occur quickly. When applying a dust collector on this application, you must make sure the minimum airflow is

maintained to keep the airstream under 150 deg. F.

Room air blasting - Sand or grit blasting AC ratios can be up around 3:1 for most applications. There is much more dilution air compared to wheel blasting. Temperature is also generally not a concern.

The main caution is blasting aluminum. Extra safety precautions must be taken like explosion venting and installing the collector outside.



GS60 on blasting at National AL Railcar



**HEMI PLEAT® FILTERS WILL IMPROVE THE PERFORMANCE OF ANY CARTRIDGE DUST COLLECTOR. GUARANTEED.**

Power up your dust collector with HemiPleat. This statement comes from the fact that with lower pressure drop HemiPleat filters, you can pull more air with less energy, thus capturing pollutants better. Filtration efficiencies exceed 99.99% at 0.5 micron size particles. The air coming out of a Farr Gold Series dust collector with HemiPleat filters has been tested to exceed the air quality required in most hospital operating rooms!



### Gold Cone Technology

The patented Gold Cone filter has allowed many facilities to reduce the number of filters they have to use and change. The innovative cone of filter media expands the usable area of the filter allowing a reduction in the number of filters by at least a third. The design has also led to long filter life with low pressure drop.

### BLASTING APPLICATION FOCUS USERS

Automation Engineering & MFG  
S.A.F.E. Systems Inc.  
3M Company  
George Welding Inc.  
FT. Wayne Foundry  
Industrial Air Systems

ATMI, Inc.  
Mercedes  
Martin Sprocket & Gear Inc.  
CMV Fabrication  
Steel Service Corp.  
Steel Fab Inc.

Valmont Industries  
J. Ray MC Dermott Inc.  
Northrup Grumman  
Oilfield Electric Marine  
Brazos Valve Service Inc.  
Russel Metals

Brunnquell Iron Works  
Burlingame Sheet Metal  
VSE Corporation  
Red Bud Industries Inc.  
Reagent Chemical & Research  
Aerospace Welding

Tobyhanna Army Depot  
Circle R. Industries  
Southwest Steel Casting Co.  
ASC  
Progressive Surface  
And more!

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