

# Focus on Laser Cutting



GS24 on laser cutting for carbon steel

**THE GOLD SERIES X-FLO DUST AND FUME COLLECTOR COMBINES ENHANCED PERFORMANCE WITH EASE OF SERVICE WHILE CLEANING THE WORK ENVIRONMENT OF HARMFUL DUST AND FUMES.**

## THE CHALLENGE

Capturing dust and fumes generated during laser cutting presents a unique challenge. With laser cutting, floor space is typically at a premium. Combining guidelines found in the ACGIH "Industrial Ventilation: A Manual of Recommended Practice for Design" with our in-field experience and state-of-the-art filtration, Camfil APC will correctly size a cost- and space-saving filtration system that is reliable, durable and easy to maintain. Let Camfil APC's expertise in this application help you to put in a safe dust collection system.

## STANDARD FEATURES:

- The Gold Series X-Flo Packaged (GSXP) collector ships completely assembled and ready to plug in.
- The GSXP collector is available in three sizes (2, 4 or 6 cartridges).
- All components (including controller, compressed air supply, access door,

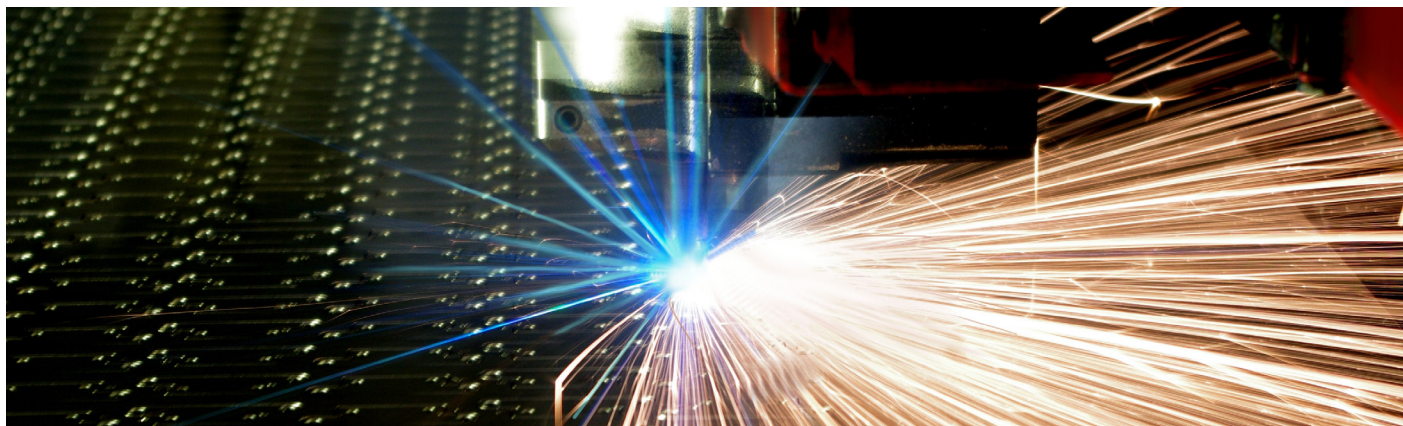
discharge drawer and integrated inlet damper) are accessible from the front of the collector for ease of use.

- An inlet damper is integrated into the collector as a standard feature. The damper will be sized for the appropriate airflow based on the size/model of collector.
- Discharge system features a 20-gallon drawer with sliding casters and a cam-operated lifting device.
- Compact collector footprint with top-mounted fan saves space.
- Diaphragm valves are mounted low for maintenance accessibility.
- Fire sprinkler in the clean air plenum provides more effective fire suppression.
- Smoke detector can send a signal to the controller to shut down both the fan and the cutting table in the event of a fire.



GSXP4

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## PERFORMANCE GUARANTEED!

Our units come with startup and on-site operator and maintenance training. Each dust collector is designed for zoned, non-zoned and central systems, utilizing multiple laser wattages. We offer dust testing and compliance with NFPA fire and explosion industry guidelines.

## SAFETY CONSIDERATIONS

Fire is a concern with laser cutting. Units come standard with spark arrestor, flame retardant filters and smoke detector fan shutoff.

## SIZE RECOMMENDATIONS

Two important factors in sizing the collector are the expected amount of fume particulate being collected and material being cut. Several things affect the amount of particulate being collected: the wattage of the laser cutter, materials used, thickness, and hours of operation.

Other factors to consider include zoned tables, shuttle tables, auto load/unload, fiber versus carbon dioxide, and optic cleanliness.

## FILTERS

Our flame retardant, HemiPleat® cartridge filters are recommended for all cutting applications. The double gasket on the filters prevents dust bypass. The HemiPleat cartridges shed dust better, and microscopic nano fibers insure dust is kept on the surface of the filter. These features increase cleaning ability and filter life.

**Flame retardant filters should always be used in this application.**



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

Power up your dust collector with HemiPleat. With lower pressure drop HemiPleat filters, you can pull more air with less energy, thus capturing pollutants better. Filtration efficiencies up to MERV 16 per ASHRAE 52.2.



The patented Gold Cone X-Flo 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, reducing the required number of filters by at least a third. The design also promotes long filter life with low pressure drop.