

LARGE EQUIPMENT BOOTHS



BOOTH FEATURES

HEAVY-DUTY MATERIALS & CONSTRUCTION

GFS Large Equipment Booths are constructed from single-skin, 18-gauge, G90 galvanized sheet steel and use structural steel columns and beams. Horizontal booth panels are assembled onto the booth's frame from the ground up for added structural integrity, simplified installation and fewer height restrictions. Solid nut-and-bolt construction and pre-punched panels ensure consistent alignment and placement.

SUPERIOR LIGHTING

Designed and manufactured by GFS for optimal brightness, Large Equipment Booths feature integrated four-tube, inside-access light fixtures. Light fixtures are ETL and ETL-C listed, and come complete with T8 ballasts and LED lamps.

FANS & MOTORS

High-powered fans and motors supply optimal airflow throughout the paint booth, creating a cleaner environment for a better paint job. Each Large Equipment Paint Booth includes a non-sparking, tube axial exhaust fan(s) with belt guards and duct connector ring, along with a UL/CUL and CSA recognized three-phase, TEFC, tri-voltage motor.

FULLY ETL & ETL-C LISTED

Pre-engineered Large Equipment models and options are fully ETL and ETL-C listed, ensuring that the entire booth complies with applicable safety codes and meets performance requirements. ETL listing facilitates successful inspections and demonstrates that Large Equipment Booths have completed independent, third-party review.

BOOTH DOORS

Swing-type product doors (either filtered or solid, depending on airflow and pressurization) and at least one personnel door come standard with each pre-engineered Large Equipment Booth. Doors feature heavy-duty hinges with plate steel and replaceable brass brushings. Hinges guarantee long-lasting performance with no sagging.

CONTROL PANELS

A UL/CUL listed electromechanical or Velocity® control panel is available with each Large Equipment Paint Booth, although highly customized booths may require a custom control panel. Electromechanical control panels are suited for non-pressurized booths, and are used to operate booth exhaust, safety interlocks and lights. The Velocity control panel offers additional features, including an Allen-Bradley touch screen interface, management of spray, cure and flash modes and auto-balancing on pressurized booths.

SAFETY FEATURES

To ensure the safety of painters and equipment, a manometer and air solenoid valve are included with all Large Equipment Booths to maintain an optimal working environment inside the booth. Manometers monitor overspray buildup on exhaust filters, while air solenoid valves prevent spraying in the booth when fans are off or light covers are open. Limit switches come standard on pressurized booths to safely shut down spray guns when the booth doors are open.

EASY FILTER REPLACEMENT

GFS Enclosed Finishing Paint Booths come complete with a full set of high-efficiency, 20-by-20-inch GFS Wave exhaust and tacky intake filters. Installing and replacing filters is easy with the grid system; you can avoid waste and save cost by replacing only the filter squares that need changing. An included manometer indicates when filters need to be replaced.

LARGE EQUIPMENT BOOTHS



BOOTH OPTIONS

PRE-COAT WHITE

18-gauge sheet steel panels and I-beams with a white powder-coated finish are available as a pre-engineered option for better light reflectivity and improved resistance to humidity and corrosion.

AIR MAKE-UP UNIT (AMU)

Capable of a 100-degree temperature rise and cure mode for pressurized booths, AMUs provide an economical source of replacement air to the booth and building. All GFS air make-up units are ETL and ETL-C listed and designed to meet all NFPA 86 requirements. For additional AMU information, refer to the Air Replacement Unit section on page 50.

LIGHTING OPTIONS

Six-tube LED light fixtures with T8 ballasts are available to provide additional lighting in critical areas without additional installation costs.

AIR PROVING SWITCH

Air proving switches automatically measure air pressure in the exhaust ductwork during booth operation to ensure that the exhaust fan is moving air and operating as expected. Air proving switches function as an additional safety check to ensure that the percentage of flammable vapors in the air remains within safe limits.

Note: Air proving switches are required for all booths installed in Canada.

BOOTH DOOR OPTIONS

Product door configurations such as roll-up, two-panel swing, bi-fold or drive-thru are available to accommodate customer space restrictions, and support specific painting and finishing workflows. Additional personnel doors can be added to Large Equipment Paint Booths for easier access to the inside of the booth.

DRIVE-THRU BOOTH CONFIGURATION

A drive-thru booth configuration can be advantageous based on the layout of the customer's paint line. Sometimes the location of the booth and process flow dictate the necessary configuration.

OBSERVATION WINDOWS

Clear, tempered glass observation windows come standard in all personnel doors, but can also be added to booth walls and product doors to monitor robotics, painters or booth modes.

LARGE EQUIPMENT BOOTHS



CUSTOM OPTIONS

To meet very specific configuration and usability requirements, GFS offers highly customized booth options that can be fully integrated into Large Equipment Booths. One of GFS' greatest strengths is the ability to design and engineer highly specialized products. Custom options like crane slots, conveyor openings, personnel lifts, door and light options, multi-stage filtration and customized controls are precisely designed to integrate with your paint booth.

CONVEYOR OPENINGS

Designed to move parts past the painter or an automatic spray gun, conveyor openings allow rails to run through the booth for increased automation and productivity.

CRANE SLOTS

Crane slots allow a bridge crane to move heavy parts or machinery into a paint booth. Crane slots can be designed to allow the bridge crane to run completely through the booth or enter and exit the same way after the product has been painted or finished.

CUSTOM CONTROLS

Control panels can be customized to integrate with direct-fire controls, building controls, highly customized booths and other shop functions.

DUAL-SKIN PANELS

Dual-skin panels are pre-coated white to create a smooth, bright appearance inside and outside the paint booth. Dual-skin panels easily lock together and are designed so light fixtures fit flush against interior and exterior walls. The space between the panels is insulated to minimize noise transfer while the booth is in use.



LARGE EQUIPMENT BOOTHS



CUSTOM OPTIONS

PERSONNEL LIFTS

Personnel lifts allow painters to safely move around tall vehicles or equipment in a basket lift to make difficult-to-reach places more accessible.

OUTDOOR BOOTHS

GFS Outdoor Paint Booths are built to meet all the same requirements as indoor booths along with additional code requirements for wind, snow and seismic loads. Outdoor Booths consist of the interior booth, an exterior shell and the support structure in between, and are well-insulated and built to withstand outside elements.

MULTI-STAGE FILTRATION

Local codes or the National Emission Standards for Hazardous Air Pollutants (NESHAP) may require three-stage filtration in certain situations. Additionally, end users may want to add roll media in front of panel filters to extend the life of more expensive downstream filters and reduce downtime due to filter replacement

ADDITIONAL SAFETY OPTIONS

Dirty filter shutdown and other safety options are available on GFS paint booths. Dirty filter shutdown signals when filters become loaded and reach a high level of static pressure. If the filters are not replaced, the booth will shut down and remain so until the filters are replaced.



LARGE EQUIPMENT BOOTHS

LARGE EQUIPMENT FEATURES & OPTIONS MATRIX

Refer to the following matrix to determine which booth features are standard (pre-engineered), optional and custom. Custom options require coordination with a GFS Sales Representative, custom engineering and additional lead times. Pre-engineered features and options can be easily selected within the Industrial Product Configurator Tool.

S - STANDARD

O - OPTION

C - CUSTOM

Features & Options		Non-Pressurized Crossdraft	Pressurized Crossdraft	Non-Pressurized Side Downdraft	Pressurized Side Downdraft	Non-Pressurized Downdraft	Pressurized Downdraft
Construction	18-Gauge Galvanized	S	S	S	S	S	S
	Conveyor Or Monorail Supports	C	C	C	C	C	C
	Corner-Style (No Bridge) Intake & Exhaust Chambers	C	C	C	C	C	C
	Custom Depth, Width & Height	C	C	C	C	C	C
	Dual-Skin Insulated Panels (Outdoor Booths)	C	C	C	C	C	C
	Horizontal Panels	S	S	S	S	S	S
	Single-Skin Panels	S	S	S	S	S	S
	Pre-Coated White Panels	O	O	O	O	O	O
Controls	Electromechanical CP	S	O	S		S	
	Velocity® CP		S		S		S
Doors & Windows	Additional Personnel Doors (Quantity Selectable)	O	O	O	O	O	O
	Drive-Thru Door	O	O	O	O	O	O
	Filtered Bi-Fold Doors	O					
	Filtered Swing Door	S					
	Limit Switches on Product & Personnel Doors	O	S	O	S	O	S
	Personnel Door(S)	S	S	S	S	S	S
	Roll-Up Doors		O	O	O	O	O
	Sliding Doors	C	C	C	C	C	C
	Solid Bi-Fold Doors		O	O	O	O	O
	Solid Swing Doors		S	S	S	S	S
	Wall Observation Window Kits Field Install	O	O	O	O	O	O
	Lighting	4-Tube, T8 LED Light Fixtures	S	S	S	S	S
6-Tube, T8 LED Light Fixtures		O	O	O	O	O	O
Pressurization	Air Make-Up Unit	O	S	O	S	O	S
	Auto-Balance		S		S		S
	Cure Mode		S		S		S
	Intake Fan*		O		C		C
	Manual VFD or Consta-Flow	O		O		O	
	Recirculating Cure Mode		C		C		C
Safety	Air Solenoid Valve	S	S	S	S	S	S
	Multi-Stage Filtration	C	C	C	C	C	C
	Seismic Construction	C	C	C	C	C	C

Note: Intake fan usage with pressurized crossdraft booths requires consultation with GFS Sales.

LARGE EQUIPMENT BOOTHS

SIDE DOWNDRAFT BOOTH MODELS

Model No.	Inside Dimensions			Outside Dimensions			No. of Light Fixtures	Personnel Doors	Product Doors Size	Exhaust Fan			
	Width	Height	Depth	Width	Height	Depth				Dia.	HP	SCFM	
16-Foot Inside Width													
Non Pressurized	LESDG-161640-NSB	16'	16'	40'	24' 4"	16' 8"	40' 4"	24	2	12' W x 14' H	30"	3	32,000
	LESDG-161650-NSB	16'	16'	50'	24' 4"	16' 8"	50' 4"	30	2	12' W x 14' H	30"	5	40,000
	LESDG-161660-NSB	16'	16'	60'	24' 4"	16' 8"	60' 4"	36	2	12' W x 14' H	34"	5	48,000
Pressurized	LESDG-161640-PSB	16'	16'	40'	24' 4"	19' 8"	40' 4"	24	2	12' W x 14' H	30"	3	32,000
	LESDG-161650-PSB	16'	16'	50'	24' 4"	19' 8"	50' 4"	30	2	12' W x 14' H	30"	5	40,000
	LESDG-161660-PSB	16'	16'	60'	24' 4"	19' 8"	60' 4"	36	2	12' W x 14' H	34"	5	48,000
18-Foot Inside Width													
Non Pressurized	LESDG-181640-NSB	18'	16'	40'	26' 4"	16' 8"	40' 4"	28	2	14' W x 14' H	30"	5	36,000
	LESDG-181650-NSB	18'	16'	50'	26' 4"	16' 8"	50' 4"	35	2	14' W x 14' H	34"	5	45,000
	LESDG-181660-NSB	18'	16'	60'	26' 4"	16' 8"	60' 4"	42	2	14' W x 14' H	36"	5	54,000
	LESDG-181840-NSB	18'	18'	40'	26' 4"	18' 8"	40' 4"	36	2	14' W x 16' H	30"	5	36,000
	LESDG-181850-NSB	18'	16'	50'	26' 4"	18' 8"	50' 4"	45	2	14' W x 16' H	34"	5	45,000
	LESDG-181860-NSB	18'	16'	60'	26' 4"	18' 8"	60' 4"	54	2	14' W x 16' H	36"	5	54,000
Pressurized	LESDG-181640-PSB	18'	16'	40'	26' 4"	19' 8"	40' 4"	28	2	14' W x 14' H	30"	5	36,000
	LESDG-181650-PSB	18'	16'	50'	26' 4"	19' 8"	50' 4"	35	2	14' W x 14' H	34"	5	45,000
	LESDG-181660-PSB	18'	16'	60'	26' 4"	19' 8"	60' 4"	42	2	14' W x 14' H	36"	5	54,000
	LESDG-181840-PSB	18'	18'	40'	26' 4"	21' 8"	40' 4"	36	2	14' W x 16' H	30"	5	36,000
	LESDG-181850-PSB	18'	18'	50'	26' 4"	21' 8"	50' 4"	45	2	14' W x 16' H	34"	5	45,000
	LESDG-181860-PSB	18'	18'	60'	26' 4"	21' 8"	60' 4"	54	2	14' W x 16' H	36"	5	54,000
20-Foot Inside Width													
Non Pressurized	LESDG-201640-NSB	20'	16'	40'	28' 4"	16' 8"	40' 4"	28	2	16' W x 14' H	30"	5	40,000
	LESDG-201650-NSB	20'	16'	50'	28' 4"	16' 8"	50' 4"	35	2	16' W x 14' H	34"	5	50,000
	LESDG-201660-NSB	20'	16'	60'	28' 4"	16' 8"	60' 4"	42	2	16' W x 14' H	36"	5	60,000
Pressurized	LESDG-201640-PSB	20'	16'	40'	28' 4"	19' 8"	40' 4"	28	2	16' W x 14' H	48"	5	40,000
	LESDG-201650-PSB	20'	16'	50'	28' 4"	19' 8"	50' 4"	35	2	16' W x 14' H	48"	5	50,000
	LESDG-201660-PSB	20'	16'	60'	28' 4"	19' 8"	60' 4"	42	2	16' W x 14' H	48"	5	60,000

The following information is consistent for Side Downdraft Large Equipment Paint Booths and is not noted in the table:

- Booth Airflow: 50 FPM
- Exhaust fan static pressure assumes a straight duct run of no more than 30 feet in length
- Exhaust Fans: 4
- Static Pressure: 3/4 inch
- Additional static pressure may be needed to account for elbows, transitions or additional length