

The Smart Repair Bay



Innovative solutions for rapid processing of SMART repairs

- Creates a filtered and brightly lit clean air environment
- High airflows for excellent overspray removal
- Simply returns to productive workshop space when not in use

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Spraybooth Technology Ltd is a market leader in designing spraybooths specifically for the smart repair industry. These units differ from conventional spraybooths, inasmuch as they identify the specific needs of smart repairs:

- 1 Rapid throughput of vehicles, i.e. a typical smart repair takes 10-15 minutes, a conventional refinishing job takes 60 minutes.
- 2 Minor areas of paint damage typically refinished using mini-jet spray guns or aerosol cans.
- 3 Much lower volumes of paint are used on each repair, typically 5 to 10ml paint and cover an area less than 10cm².
- 4 Drying of paint is achieved by using infrared technology, as opposed to elevated temperature bake cycles.

These factors dictate a different design philosophy behind the smart repair facility, achieving lower capital expenditure, typically 40-50% of a conventional spraybooth, with running costs of less than 10%.

Dimensions

External: 6.7m long x 3m wide x 3m high

Internal: 6.0m long x 3m wide x 2.5m high

Options: Increased width to 3.5m / increased height to 3.0m internal

Lighting

6-off pod light units, each fitted with triple fluorescent tubes with electronic switchgear provide instant, flicker-free uniform illumination rated at over 1500lux.

Filter System

A 4m by 3m air plenum suspended above the front of the work area filters inlet air to 10 microns, creating a down draft over the body of the vehicle, which reverts to a horizontal airflow as it is extracted at the rear of the workspace via a 3m x 1m filter box.

Construction

Rear wall and overhead air plenum are assembled with single skinned galvanised steel panels, finished with a hard white PVC coating. The front of the roof filter assembly is suspended from above in order to keep the front of the bay clear at floor level, usually with six wires with a maximum load of 100kg per wire.



Curtain

A weighted, flame retardant curtain separates the enclosure from the surrounding area.

Air Handling Plant

A single, high efficiency 2.7kW direct-drive fan provides robust long life with minimal breakout noise, providing a maximum air throughput of 12,000m³/hr. 10-15% of airflow is discharged to atmosphere via a 150mm duct, and renewed with fresh air to prevent solvent build up.

Service & Warranty

Quality nationwide coverage, with regionally based Corgi-registered engineers providing service back-up and customer support. 12-month warranty with parts and labour

On-site installation requirements

Electrical - 16A 3-phase and neutral and earth supply terminating in an isolator, and final connections. Maximum running current 10A.

Ductwork - Roof aperture and the re-sealing thereof for a single 200mm diameter duct.

Installation - A clear flat surface with obstructions in the roof removed. The roof structure must be able to support the safe working load rating of the wire rope of 278kg.

Plant Hire

A scaffold tower will be supplied by STL for installation. In the event that site conditions dictate a cherry picker or scissor lift is necessary this will be charged as extra.

For further details or for a discussion and free site survey please call us now on 01787 313550.