

# INNOVATIVE CONTAINMENT SCREENS FOR DOWNFLOW BOOTHS

Extract Technology were the first company to integrate local barrier containment screens into downflow booths in the early 1990's. The company then went on to develop a range of workstations to improve operator exposure levels, these being the forerunner to today's range of Containment Screens

Incorporating Extract Technology's patented Flexible or Rigid Screens into a downflow booth provides a physical barrier between the active product and the operator, thereby immediately improving the attainable containment levels. Recent tests on booths fitted with containment screens have confirmed that levels of  $<1\mu\text{g}/\text{m}^3$  can be achieved, dependant on application.



## Significant benefits of a Rigid Screen include the following:

- Up to 5 dimensions of movement including rotational and lockable tilt options, providing the best possible ergonomic solution.
- Multiple mounting arrangements available.
- Can be easily "folded away" to the side wall when not in use or totally removed.
- Can be earthed and manufactured from anti-static acrylic or glass to allow installation in Zone 22 ATEX areas.
- Screens can be adjusted to suit all operator heights.
- Various options of gauntlet or gloves to be incorporated into the design including a safe change option.
- Easily retrofitted into any existing downflow booth installation.
- Reduction in cost and maintenance of PPE equipment.



# Containment Screen Configurations:

## 1. Fully Integrated in booth, on runners – non articulated arm:

A fully integrated 5 dimensional containment screen in which a stainless steel track is installed within the booth. The screen is manoeuvred on a trolley system in the different axis. The screen can either be moved to the side wall when not in use or can also be totally removed.

## 2. Floor mounted, articulated arm included:

The articulated arm is fixed to a floor mounted post. The arm can rotate 360° from this fixed point with another 360° pivot providing a full range of movement at the screen mounting point. The arm and screen can be raised / lowered and tilted allowing the operator to position the screen anywhere between the operator and the process.

## 3. Ceiling mounted, articulated arm included:

The articulated arm is fixed to through the overhead supply plenum (supported from the clients structural steelwork); The screen is able to rotate and move right/left, forward/back, up/down within the boundaries of the articulated arm, allowing the screen to be positioned anywhere between the operator and the process.



## Full Site Survey, Installation and Re-Validation Service

Extract Technology can offer a full package from initial enquiry to handover. The full package would include a full detailed site survey, full design and manufacture, (including a mock up if required) installation and a full site acceptance and revalidation.

