ROBOTIC WELDING LEV SOLUTIONS

Robotic welding becomes a widely adopted and standard solution across diverse industrial fields. While offering notable advantages, this technology also presents various challenges, and among these challenges, managing fume extraction is one of the biggest.

LEV SOL. FOR ROBOTIC WELDING

Robotic welding can generate significant amounts of welding fumes, which, if not controlled, can disperse throughout the workspace. Efficient fume extraction is crucial to prevent these airborne contaminants from affecting the health of workers and polluting the environment.

Easiest way to apply LEV system for robotic welding application is to install a High Vacuum On Torch Filter Unit - Mikrofil MIDI. However it is not always appilcable to use such products because of process requirement. In this case, a professional LEV design or General Hall Ventilation (GHV) or combination of both LEV and GHV is required.

Designing an LEV system for robotic welding applications could be challenging. Designers need to consider robot movement, positioner movement, bridge movement and material flow (supply and deliver). This type of design requires great experience and know-how. Bomaksan engineers, project designers and solution partners can help you along the way.

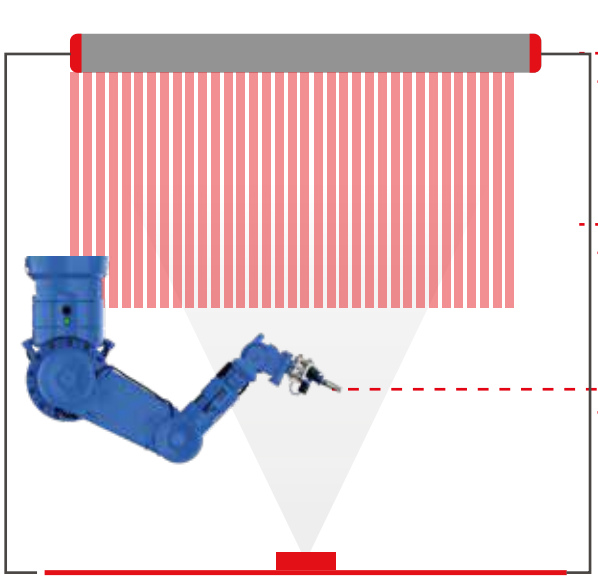
PRODUCT OFFERINGS


LINE serisi

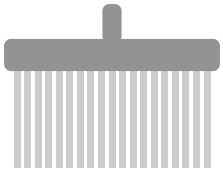

VERTY serisi


MIKROFIL midi


ECOG serisi



Depending on Welding Project — Extraction Hood



Depending on Cell Design — Robotic Cell

100 - 170 m^3/h — High Vacuum On Torch Extraction

ROBOTIC WELDING GHV SOLUTIONS

Robotic welding becomes a widely adopted and standard solution across diverse industrial fields. While offering notable advantages, this technology also presents various challenges, and among these challenges, managing fume extraction is one of the biggest.

GHV SOL. FOR ROBOTIC WELDING

Robotic welding can generate significant amounts of welding fumes, which, if not controlled, can disperse throughout the workspace. Efficient fume extraction is crucial to prevent these airborne contaminants from affecting the health of workers and polluting the environment.

General Hall Ventilation (GHV) solutions can be applied when LEV solution is not applicable or is not enough to capture all the pollutants. If exposure limit is exceed even with the LEV system, which is possible even with a good designed LEV system depending on the number of source, GHV solutions are required.

Designing the right GHV system depends on the layout of the workshop, purpose, robot type and welding type. Sometimes it is not so easy to choose and design the right GHV system. In this case experienced Bomaksan engineers, project designers and solution partners can help you along the way.

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