

# BLASTMAN BLAST ROOM

## LAYOUT

The layout of the blast room depends on customer's workpiece handling system and the production flow .

## IN AND OUT

In and Out blast room is designed with one main door. The workpiece enters and exits the blast room from the same side.

## DRIVE THROUGH

Drive through blast room has main doors at both ends, the workpiece enters from one side and exits from the other side.

## MONORAIL

In case of an overhead conveyor (monorail) system, the roof of the blast room is engineered accordingly. Special attention is paid to the sealings and support structures.

## STEEL STRUCTURE

Blastman blast room has a support structure for the robot rails. The structure of the Blastman blast room is strong, steady and accurate to carry all static and dynamic loads caused by the robot(s).

## WALLS

The walls of Blastman blast rooms are typically made of sandwich elements, which provides good noise insulation and necessary fire protection for the blast room. For extreme noise insulation, the walls are made of double layer sandwich elements. The sandwich elements do not last against abrasive rebound. Therefore, the blast room walls are covered by rubber protection or a special coating.

## ROOF

The material of the roof depends on each application. Typically, the roof is made of bended steel elements or suitable sandwich elements.

## MAIN DOORS

The doors of the blast room are always engineered according to the needs of each customer. Typical door designs are double door, folding doors and roll up doors. Double doors and folding doors can be either automatic or manually operated. All Blastman doors are equipped with safety switches which prevent the use of the robot when the door is open. The size of the doors is determined by the size of the largest workpiece.

## MAN DOORS

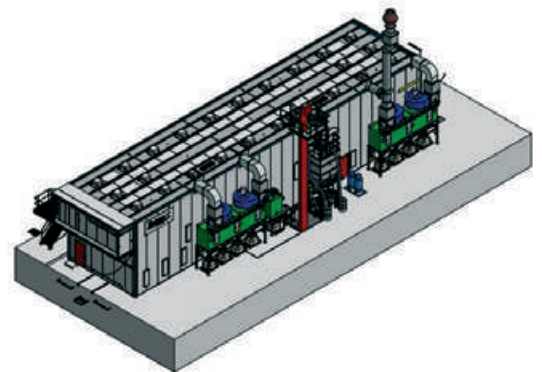
The blast room has to be equipped with a sufficient number of man doors to ease entry into the blast room. Blastman man doors are heavy duty doors protected for blast room use and each door is equipped with a safety switches to prevent any robot operation unless all the doors are closed. Accidental opening of any door will stop the robot. Each door is equipped with a signal lamp to inform operators and when the robot is in operation.

## LIGHTS

Illumination of the blast room is made by ceiling and wall lights. Both led and fluorescent lights can be selected. All the lights in the blast room are protected by long lasting replaceable covers.

## CONTROL ROOM

Blastman control room is specially designed for operating and monitoring the robot blasting process. The control room is adjoined to the blast room and equipped with mesh protected windows. All blast room related devices and equipment can be operated inside the control room. Optionally, the room can be equipped with air conditioning.





## BLASTMAN BLAST ROOM

The blast cleaning process must be isolated from the surrounding environment due to the nature of the process. Typically, blasting takes place in a sealed enclosure or room. The design and structure of the room should be strong and well protected against blasting. The room should be well sealed to avoid any leakage of abrasive, dust and noise. In order to serve our customers with turnkey solutions, we have developed our own Blastman blast rooms for different applications. Blastman blast room design is based on the needs and requirements of each customer.