

THE SURFACE FINISHING EQUIPMENT GROUP

SALES – SERVICE - HIRE
TRAINING – INSTALLATION

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Surface Finishing
Equipment Group

ARS Vacuum Recovery System



The purpose of this system is to recover used abrasive media from a blast room and return it to the blast pot after removing any dust and fines, so the media is clean and ready for re-use. This reduces time spent shovelling abrasive and improves productivity and blast quality.

System Description:-

The vacuum recovery system consists of the following main items:-

1. Sweep in pit liner.
2. Suction tube.
3. Abrasive hopper with sieve.
4. Vacuum generator / extraction unit.
5. Control panel.

The operator will sweep the used abrasive into a pit set into the blast room floor. We will need to establish the best location for the pit and the blast pot and filter unit which should be outside the room. The vacuum recovery system will convey the used abrasive from the sweep in pit into the recovery hopper on top of the blast pot.

The vacuum will be supplied by an air driven dust cartridge extraction unit, fitted with a reverse jet pulse cleaning system. (Electric fan driven vacuum units are also available).

As the used abrasive enters the recovery hopper, dust and fines will be removed to the dust extraction unit. The abrasive cascades over a mesh where oversize particles and debris are caught and collected in a draw for disposal. The re-usable abrasive falls through the mesh back into the blast pot, ready for re-use. The hopper is fitted with a level probe, which will shut off the vacuum system to stop the recovery of abrasive, once the hopper is filled to its maximum level.