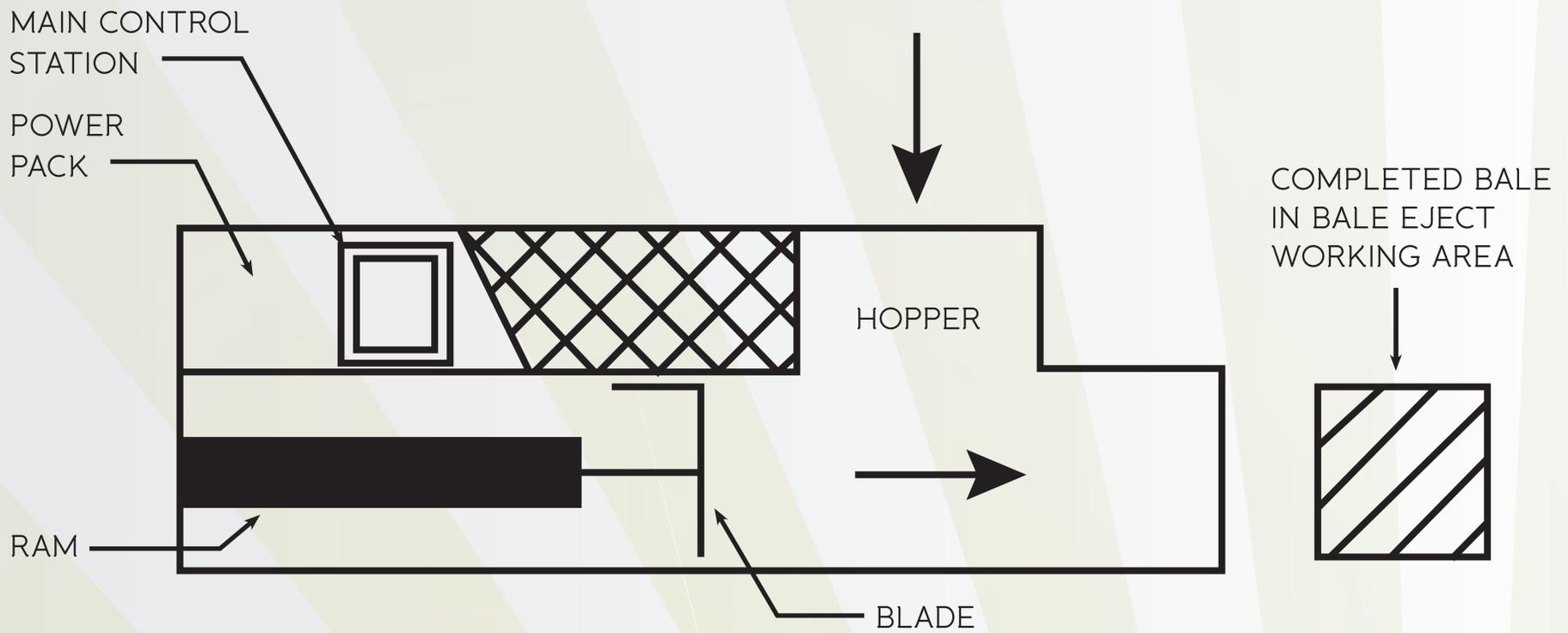


HOW DOES A BALER WORK?



WHAT IS A BALER?

A baler is a machine that compresses materials such as plastic, paper and cans into tight packages known as bales. At Douglas Borough Council Operational Service Transfer Station, there are 4 balers. Three of these balers are used together in combination with an overband magnet and a Eddy Current separator in order to create a processing system that sorts mixed materials into separate bales.

WHY DO WE BALE MATERIALS?

Materials are baled in order to make it easier to transport them onto their next destination where they will be reprocessed into new materials.

HOW DOES A BALER WORK?

Paper, card and cardboard must be manually separated and then tipped into separate bays. Once the materials have been separated, the baler that is used to bale them is loaded with them individually. This is done using a JCB teletruk that scoops the material being baled up into its bucket and then drops it into the baler through its hopper. The material is then compressed against the closed door of the baler using the ram. Once the bale is of the correct size, the bale is tied off manually and then ejected from the baler.

At Douglas Borough Council Operational Service Transfer Station we are able to load the hopper of the processing system with aluminium, steel and plastic which will then be sorted by material type. The materials are fed along a conveyor belt until the processing system separates the steel cans using an overband magnet so that they are removed from the conveyor belt. The plastic and the aluminium then fall onto the Eddy Current separator that removes the aluminium leaving the plastic to fall onto a new conveyor. The separated materials are then fed along separate conveyor belts into separate balers that compresses the materials in order to produce bales that are then ejected from their baling chambers.

