



Mitras Automotive



Street CraneXpress Ltd have provided Mitras Automotive with a much needed mechanical handling solution to increase the safety and efficiency of one of their fundamental processes.

Mitras Automotive supply the biggest names in the automotive industry with moulded body parts for motor vehicles, and came to Street CraneXpress when they required a system to handle delicate, newly pressed trailer hoods.

Once the 35kg hoods have been pressed it is important that the shape is not then distorted, so the final solution required a system that would not deform the hoods upon removal or during transportation. After trials undertaken with the client to fully understand the nature of the application, Street CraneXpress offered a pneumatic manipulator.

The manipulator consisted of a 75kg SWL 3 pad vacuum lifting system working in combination with a new electric powered travelling hoist.

The vacuum pads are able to safely lift the hoods without exerting a detrimental amount of pressure onto them.

The operator is then able to smoothly raise the freshly moulded hoods out of the press, and suspend them for inspection purposes, before traversing over to the storage area. This whole process is controlled from ground level thanks to Street CraneXpress's bespoke designed pendant control.

Street CraneXpress also re-sited an existing runway beam in order to mount the electric travelling hoist directly over the centre of lifting of the two moulding machines.

In to ensure operator safety and protection of the loads at all times, the manipulator has a number of safety features built in:

The unit is supplied with pneumatic brakes which can be operated manually by the user, or in the event of an air leak, will automatically employ causing the system to come to a complete halt.

The unit is also fitted with an air reservoir, which in the event of a power failure enables the load to be lowered to safety in a controlled manner.