

APPLICATION CASE STUDY #156

SIC Code:
3714

Product Handled:
Automotive Exhaust Assemblies

Machine Type:
CM MAX 120 Air Balancer &
Mechanical Hook Tool

HANDLING PROCEDURE:

Automotive exhaust assemblies are removed from a weld fixture and transferred to shipping racks. Assemblies are always horizontal.

PROBLEM:

Two styles of exhaust assemblies are manufactured in batches. The weld fixture has clamps to hold the assemblies and the shipping racks have cradles to support the assemblies. Each rack holds ten assemblies arranged in two rows (columns) with each row containing five assemblies. Assemblies in the front row are orientated 180 degrees to the assemblies in the back row.

MATERIAL HANDLING REQUIREMENT AND WORK AREA RESTRICTIONS

- 35 Lbs. maximum payload
- 2" and 2.25" O.D. exhaust pipes
- 500 degrees after welding
- 80 PSI air available
- Weld fixture clamps
- Shipping rack cradles
- Handled in batches
- Horizontal transfer



MATERIAL HANDLING SOLUTION

- CM MAX 120 air balancer:
 - 120 Lbs. lift capacity at 80 PSI
 - 80 " of vertical lift
 - Dual balance circuit
- Mechanical hook tool with a stabilizer pad to maintain the exhaust assemblies in a horizontal position as the lifting hook is not on the payload center of gravity.
- Two sets of control handles mounted to the tool for operator convenience.
- Three spring centered toggle switches to actuate the dual balance load/no load circuitry from any of three locations.
- Rail system supplied by the customer.

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