

APPLICATION CASE STUDY #136

SIC Code:
3714

Product Handled:
Engine Block

Machine Type:
LodeArm 3030

HANDLING

DESCRIPTION: Transfer blocks from an inbound conveyor or pallet to an outbound conveyor.

PROBLEM: Existing below the hook tooling used to unload blocks from a pallet was not able to unload parts from the new overhead conveyor. Operators were unloading blocks by hand, flipping them over 180 degrees and placing them on an outbound floor conveyor.



MATERIAL HANDLING REQUIREMENT AND WORK AREA RESTRICTIONS

- 106 lbs. payload weight.
- 8' 40" Pick & Place height.
- 8' Reach requirement.
- 76" Clearance from floor to overhead conveyor.
- Grip on end of block.
- Rotate block 180 degrees for placement onto outbound floor conveyor.
- Minimum floor space available.

MATERIAL HANDLING SOLUTION

- LodeArm 3030 pneumatic manipulator.
- Mechanical trap tool.
- Continuous 360 Degree end of arm rotation.
- 48" Vertical lift.
- Manual rotation through horizontal axis with stops at 180 degrees intervals.

- Thumb-operated up/down metering valve.
- 23.5" square, 4-bolt footprint.