

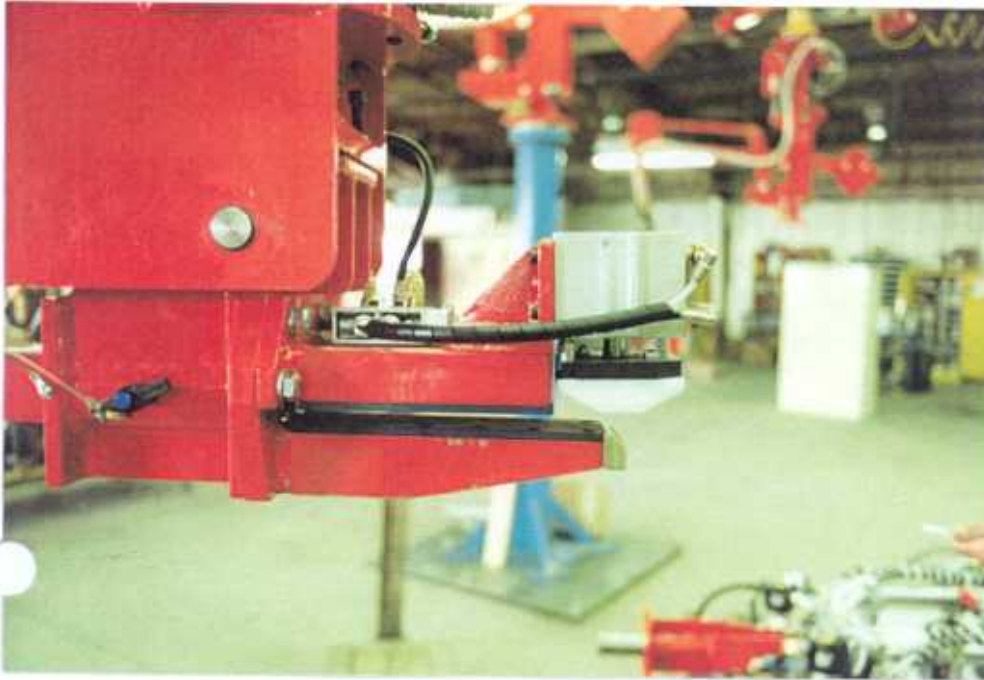
# APPLICATION CASE STUDY #106

**SIC Code:**  
3300

**Product Handled:**  
Square and Rectangular  
tubing, channel, flat steel plate and  
formed sheet metal.

**Machine Type:**  
K-96

**PROBLEM:** How to handle various materials within the facility with (1) manipulator.



## MATERIAL HANDLING REQUIREMENT AND WORK AREA RESTRICTIONS

- Both ends of the tubing and channel were often bent up at 15 degree angles.
- Each batch of sheet metal had different folds, bends and punched holes. Manipulator needed to be transferable between different workcells.
  - Tooling needed to be interchangeable with minimal downtime

## MATERIAL HANDLING SOLUTION

Pedestal mounted Model K-96.  
Solid steel mobile base with leveling jacks.  
Pitching endjoint with tooling interlock.  
Tongue gripper/trap tool for tubing, channel and flat steel.  
Vacuum tool with an adjustable frame and individually adjustable vacuum cups with quick disconnects for cup removal.  
Pivoting, counter-balanced operator's control handle with TMV.

