

Challenge: Turn lighter weight, higher cost aluminum

into a viable material for pick-up trucks.

Problem:

Old steel stamping operation was going to integrate aluminum parts, but required a cost-effective way to handle both steel and aluminum scrap.



Compass All (En)Compassing Solution:

Engineering:

- 1. Contacted scrap recyclers to determine how to maximize scrap value.
- 2. Set goal of 95% scrap purity and greater scrap density.
- 3. Took precise laser measurements throughout plant.
- 4. Developed 3D design of system in plant.
- 5. Designed complete system to handle 4 additional press lines for cost-effective future expansion.

Fabrication:

- 1. All cutting, welding and painting done in our plant. Sourced key components and integrated into our system.
- 2. Staged system sections with components, conveyors and pneumatic tubing in our plant before shipment.
- 3. Controls programmed at Compass and de-bugged before shipment.
- 4. Delivered more than 17 tractor trailer loads of equipment within 5 months of engineering completion.

Installation:

1. Compass erection and electronics crews fully installed and tested system within 3 months.

OUTCOME:

1. System has operated for over 15 years with minimum maintenance.

2. Over 18 month audit period:

1 8 million lbs of aluminum scrap ran through system. 2 Labor savings: \$960k per year. 3 Trucking & scrap handling savings: Reduced costs by more than 50%.