

Side Trimmer/Scrap Chopper

A Metals Case Study

The Application

A large midwestern machinery OEM utilized PCT to design and fabricate a custom control system for a side trimmer/scrap chopper machine to be exported to Russia. Field startup needed to be minimized due to the remote location of the end user.

The PCT Solution

PCT Engineered Systems worked with the OEM to insure the control system met the demanding needs of the end user.

The control system was based on the Siemens PLC controlling Siemens DC drives. Operator interface was provided with several control stations:

- ◆ Positioning side trimmer knife vertical gap
- ◆ Positioning side trimmer knife horizontal gap
- ◆ Positioning HSG traverse
- ◆ Side trimmer speed regulation
- ◆ Scrap chopper speed regulation
- ◆ Side trimmer logic and sequencing
- ◆ Scrap chopper logic and sequencing

The entire control system was designed and fabricated at PCT's facilities in Davenport. Multiple simulations and tests were performed prior to shipment to the OEM in Ohio. The system shipped to Russia with startup completed by a Siemens factory representative.

