



Product

Straightener Drive Upgrade

Application

Steel Processing Line

Highlights

- Rebuilt enclosed reducer
- Carburized and ground replacement gearing
- 1:1 reduction ratio
- 160 RPM input;
160 RPM output

A major steel producer needed an upgrade to a straightener gear drive. The service requirement on the existing drive was increased which caused the most heavily loaded gear in the train to fail due to overload. Driven by a 500 HP motor, the straightener pulls strip steel through two sets of rollers that relieve stresses while straightening the coil.

Nuttall Gear was selected over a competitor to provide the upgraded gear drive based on their long standing working relationship with the customer and their reputation for designing and manufacturing robust steel mill gear drive solutions.

The rebuilt Nuttall drive featured a reduction ratio of 1:1, a 1.25 service factor with a 160 RPM input and 160 RPM output. The gearing upgrade to the affected components was changed from a through hardened gears to carburized and ground gears for enhanced wear resistance and improved shock load capacity.

US (Application Assistance)
1-716-298-4100
nuttallgear.com

Asia Pacific
For a list of our AP sales offices:
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