

## Cold Rolling Mill Automation





Modbus plus network Master controller • Speed & tension reference Process controller for • A S D Sequence interlocks Signal cable Plant wide I/O stations for sequence interlocks R I/O Network DC/AC drive DC/AC drive DC/AC drive DC/AC drive for pay-off reel Tension Main stand Tension reel #1 reel #2 Plant wide I/O stations for sequence interlocks To other R I/O stations Thickness Thickness detector #1 Speed Speed detector # 2

detector

# 2

The CRM automation is the testimony for the L&T's comprehensive experience and process know-how.

Tension

reel # 2

A typical CRM automation scheme uses process controllers, high performance AC/DC drives and 'Panorama' operator station - Integrated across Modbus plus network.

## The result:

Tension

reel # 1

Pay-off reel

Digital speed & tension reference

detector

- ♦ Auto slow down control (ASD)
- ♦ On-line rolling data logging for easy maintenance & trouble shooting
- Easy installation and commissioning through use of Modbus plus network