

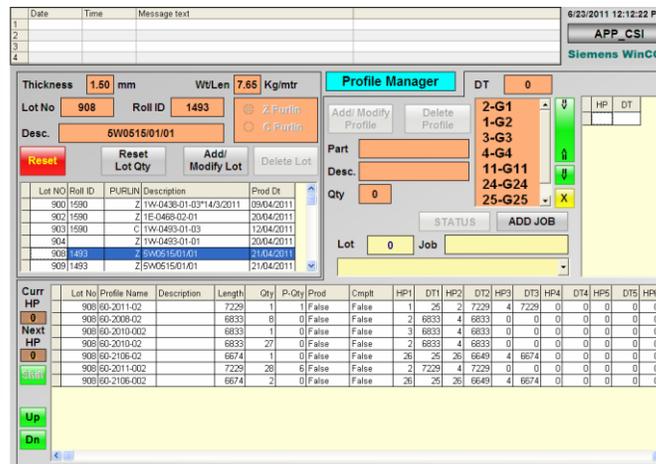
Zamil Steel

C/Z Purlin Forming Machine (Retrofitting of the original S7-WinCC Installation)

Scope of Execution: The original installation for C/Z Machine was done by Korean OEM. End customer wanted to increase the productivity of the machine by increasing hole punching capacity (Number of holes that can be punched on a job was increased from 15 to 50) Also, MIS was needed for engineering department to access production data remotely.

Outcome: The customer was not only happy, but he revised to scope of execution to customize the machine to punch different type of holes on same piece which was not offered even by OEM originally. A new retrofit job was offered looking at the quality and results of provided solutions. Similar installation will be retrofitted globally.

Seamlessly integrated solution on SIEMENS WinCC Platform and newly incorporated feature of handling both C Type and Z Type Purlin.



Features of the Solution:

- No separate profile manager application. The functionality is integrated as a part of WinCC SCADA application.
- Globally, first in Zamil India installation to punch up to 50 holes per purlin.
- Globally, first installation in Zamil India to punch C and Z type of hole on same purlin.
- Set of MIS reports available
- Direct import of production data from engineering department database possible thereby eliminating production error due to incorrect manual data entry.

Zamil Steel, Pune

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Challenges

- The specification of OEM installation was not conveyed in black and white; the reference for comparison was missing.
- Complete core logic was in exe file without source code.
- Usual Simatic solution for recipe management 'User Archive' was not applicable because of relational database and MIS requirement.
- Updating WinCC 6.0 SP2 to WinCC 7.0; WinCC 7.0 demands more resources.
- Increasing the number of holes from 16 to 50 caused cumulative error to reduce the cut-to-length accuracy from +/- 1mm to +/- 5 mm for maximum number of holes.

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