



# ROLLED METAL DEFECT DETECTION & CLASSIFICATION

“ We are really excited by this unique solution and look forward to developing derivatives with Captec in the future. ”

Design Lead

The solution is for a dynamic UK based company who provide advanced technology products for the metals industry. They supply equipment to all the leading steel manufacturers and OEM suppliers of steel manufacturing and processing equipment. They have operated in 46 different countries for over 30 years and are supported by regional offices in the USA and China.



## REQUIREMENTS & ISSUES

- ▶ Must accommodate custom designed PCBs, with specific mounting and access requirements.
- ▶ Ambient temperature from below freezing to +40 degrees C, humidity up to 90%.
- ▶ The environment is heavy industrial, steel mill roll shops. There can be aggressive corrosives and an oil mist which blocks fan filters and silts up circuit boards.

## THE SOLUTION

- ▶ The Captec design is compact, sturdy and has great visual appeal.
- ▶ The PCB mounting and connection arrangements are very tidy and easily accessible.
- ▶ Heat management was engineered by Captec, using information on current consumption of components.
- ▶ Heat chimneys and heat transfer technology now enables the client to offer a sealed unit without air conditioning into hot environments.
- ▶ Design was driven entirely by Captec, with the close cooperation of the client to optimise the solution.



## THE OUTCOME

- ▶ Only digital real time solution for sub-surface defect detection in the world.
- ▶ Solution now going to an international market.
- ▶ The client is very happy with the aesthetic look and feel.
- ▶ Highly reliable in operation.
- ▶ The solution automates what was previously a manual inspection process.



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