

## CONDUCTION COOLED CHASSIS



### REQUIREMENT

Today even construction site equipment requires high performance electronics. This system needed to be located at the bottom of an excavator, where the chassis could be submerged underwater for periods of time.



### CHALLENGE

The system requires IP67 to allow it to be under water for a maximum of 30 minutes. The overall construction needs to be very robust to survive the live cycle of the excavator.



### SOLUTION



A conduction cooled chassis for this application was mandatory. A Flotherm simulation was performed to analyze and optimize the thermal solution. Special clamshells were developed to get a sufficient heat transfer from the inserted boards to the chassis. The backplane design was made according to customers' requirements.

#### Project Details

Location	Europe
Industry	Building industry
Application	Excavator
Technology	Conduction Cooled IP 67
Product scope	Conduction Cooled chassis
Date/Time frame	2015
Contract scope	-