



Production line robot



Robot controller



Automatic shutdown controls deliver significant energy savings

Land Rover

Overview

The installation of automatic shutdown controls on the production line at Land Rover's Lode Lane Plant have resulted in significant energy and CO₂ savings.

Automatic Shutdown Controls

A review of energy use at Land Rover's Lode Plant production line identified that large savings could be made by powering down equipment during periods of inactivity.

New controls have been installed on the production line's programmable logic controllers (PLC's) to automatically power down over 300 robots, the 12 bar air supply and beacon/alarms after a set period of inactivity.

Energy & CO₂ Savings

It has been calculated that the introduction of these simple controls has saved over £35,000 in electricity costs and 260 tonnes of CO₂ per year.

"Our electrical controls standard resulted in power being consumed by robot motors even during long periods of inactivity. We worked with the robot manufacturer - ABB to check whether more regular power downs would have any detrimental effect. There were no problems and this is now included in our new standards. A spin off was that we found additional systems including the 12 bar air supply and light beacons could be powered down using the same PLC software." *Joe McNamara, Lean Manufacturing Manager - Land Rover*