Based in South Wales, Mechtek Automation is a specialist engineering company offering advanced automation solutions. From mechanical to electrical, Mechtek designs in-house and specializes in complete turnkey solutions.

Mechtek’s latest project was to design and build an automated battery assembly line for one of the largest battery manufacturers in the world. The application is assembling large lead acid battery packs used to power electrically operated vehicles such as forklifts, pallet jacks and aerial lifts.

A fully automated assembly line, with a number of different stations and processes, this turnkey solution requires numerous low maintenance products that can withstand the harsh environment of battery production and operate 24/7.

Lead is a major health risk and exposures are controlled by automating the process, thus removing the workers from the hazard. Increasing production was also key focus for Mechtek designing the system.

“With a strong working partnership we were able to overcome many design challenges by providing fully modular Hepco linear systems. We were able to draw upon our wide product range to provide specification to meet the requirements for each of the linear applications involved in the process”.

- Alec Dick, HepcoMotion Sales Engineer
RESULTS:
The new automated assembly line will have a profound impact on productivity. Mechtek anticipates the line will produce 1200 batteries per shift; effectively tripling current production rates and removing up to 40% of the manual handling from the operation. Furthermore, the new machine produces less dust, making it environmentally safer.

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