

‘Right first time’ robot set-up with RCS L-90



**Significantly
reduce robot
set-up time**



**Increase
productivity and
throughput**



Background:

‘Factory in a Box’ is an idea developed by the Manufacturing Technology Centre (MTC). This research and technology organisation is part of the High Value Manufacturing Catapult. The concept emerged to fulfil a need for industrial robotics in remote or hazardous locations without human involvement.



Challenge:

MTC’s ‘Project Charge’ automates the dismantling of EV batteries for recycling. A potentially dangerous operation undertaken in a confined space. However, relocating an entire ‘factory in a box’ leaves the cell liable to shift, and impacts the performance of the robots.



Solution:

Renishaw’s RCS L-90 allows quick Tool Centre Point (TCP) and part alignment checks after a robot crash or relocation of a robotic cell. This portable in-field toolkit gives MTC the confidence to move the containers without the need for manual reteaching. Automated set-up reduces the need for skilled engineers on the ground.



Since implementing this technology we are seeing a right first time set-up, and the robot programs are running automatically. Therefore, productivity and throughput just go straight up.

Manufacturing Technology Centre (United Kingdom)

