

CASE STUDY

MOTORIZED WHEELS: EXPERT RETROFITTING DRIVES SAFETY AND OPERATIONAL EFFICIENCY



THE CHALLENGE

The customer required enhanced mobility and handling for their 750L ABEC mixing vessels at their facility. The manual process of moving the vessels was slow and labor intensive, risking safety, efficiency, and productivity.

The customer sought a robust solution to retrofit existing vessels with powered wheels, ensuring safer and more agile operation within constrained factory spaces while minimizing operational disruptions

THE SCOPE

The project involved collecting the 750L mixing vessel from the customer's facility and installing the Blicly powered wheel system in specified locations on the vessel's cladding and frame. This included mounting the control joystick and junction box, rerouting compensator and burst discharge piping to allow full 360-degree rotation of the wheels, and designing a protective cover for the wheels from 304L stainless steel. ABEC also managed the connection of power cables, tidied wheel connection cables for safety and accessibility, and updated 2D drawings to document the vessel modifications.

Once all modifications were completed, the vessel was returned to the customer for further review and use, while supporting future discussions for additional vessel retrofits and new equipment purchases.

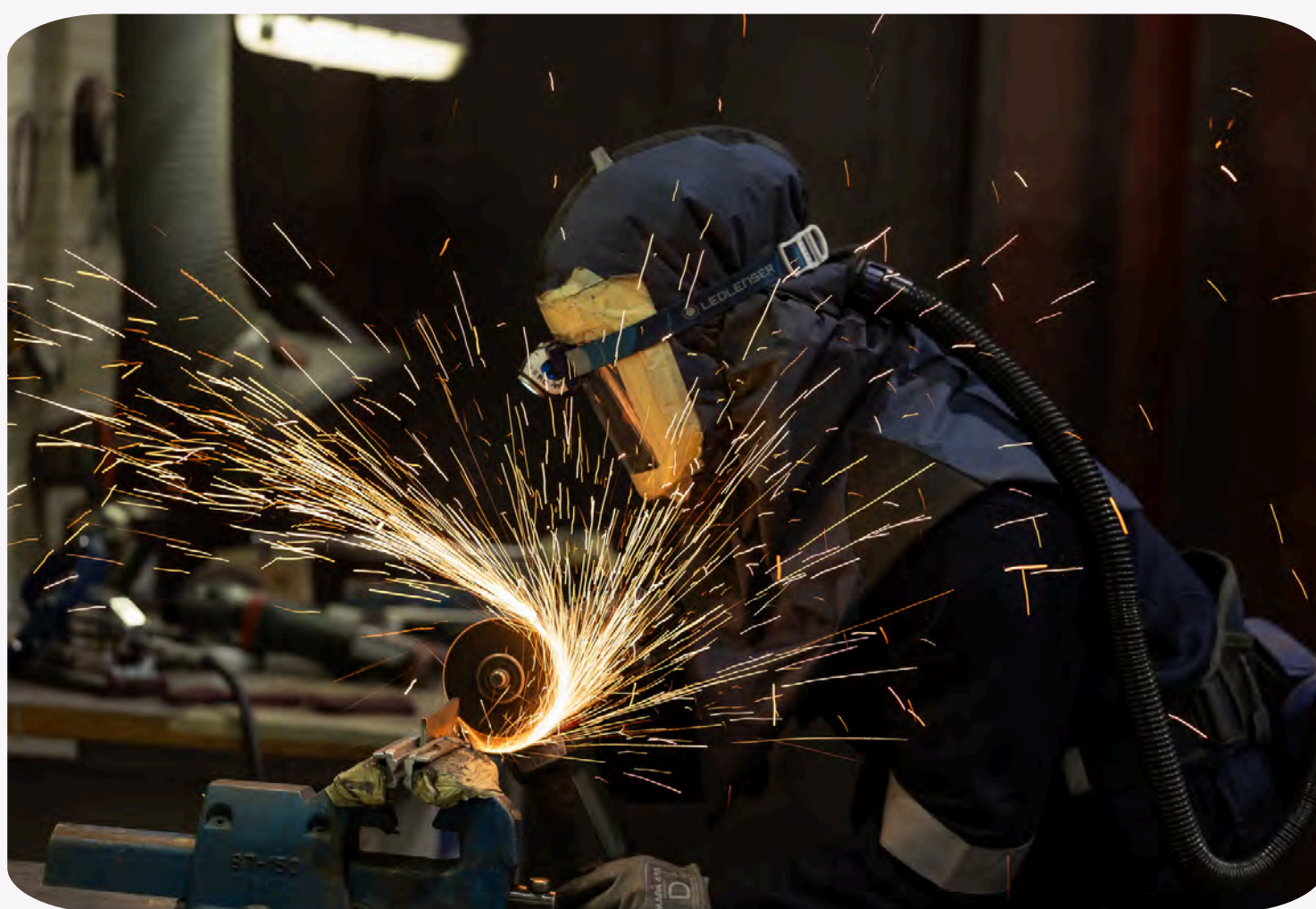
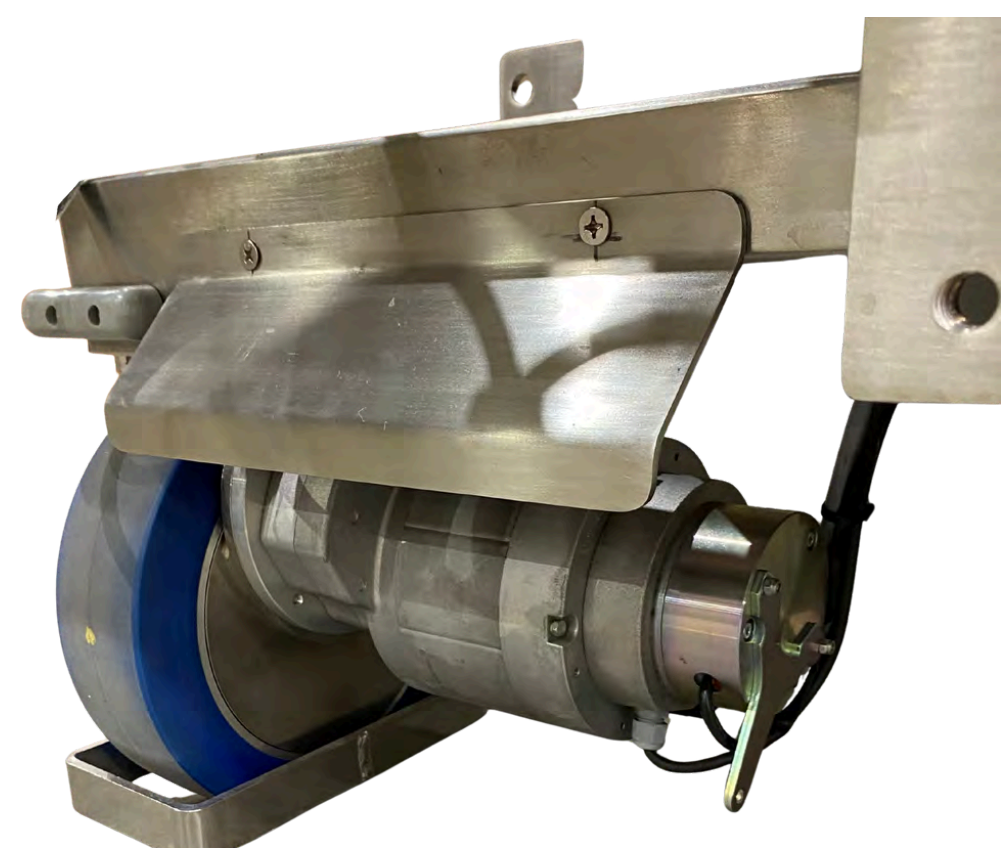
THE RESULTS

ABEC successfully executed the project to high standards, receiving impressive feedback from the customer's engineering team. This successful retrofit not only triggered discussions about additional vessel upgrades but also generated global interest within the customer's engineering network. This led to reviewing options for future retrofits and procurement of new vessels, recognizing the operational improvements achieved through the project

THE BENEFITS

- Improved vessel mobility and handling within operational areas.
- Enhanced workplace safety through a 100% possible reduction in manual pulling and pushing effort.
- Maximized production floor footprint in constrained spaces with a retrofitted joystick steering mechanism that allows vessels to pivot easily into previously restricted areas.
- Strengthened partnership and alignment with customer's scaling production needs.

For more information on this on this product email info@abec.com



Maximizing Customer Productivity, Controlling Costs, and Reducing Risk

ABEC's service team is highly trained and experienced, working for customers to maximize productivity, control operating costs and mitigate risk. In every way, we strive to eliminate unscheduled shutdowns, while bearing in mind all factors associated with maintaining and improving bioprocess production operations and equipment. Our expertise and capability to address your specific requirements, in line with your schedule, make us the first choice for bioprocess services, no matter the location, the scale of the task, or the original manufacturer.



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