



SUCCESS STORY

Star Hydraulics Helps Truck and Transportation Service Equipment Manufacturer Drive Market Innovation

Volta Ion delivers an innovative product, integrating custom-made cylinders and advanced hydraulics.

Volta Ion was founded on September 11, 2018, as an innovation-driven company with a mission to revolutionize the automotive service equipment industry. Volta Ion has a focus on safety and sustainability and strives to create cutting-edge equipment that not only enhances human motion but also prevents accidents in the workplace. Star Hydraulics has developed a strategic partnership with Volta Ion to engineer a custom solution for the truck maintenance industry.



CLIENT

Volta Ion

LOCATION

Miami, Florida

FEATURED PRODUCT

Custom Hydraulic Cylinders



CHALLENGE

The automotive service equipment customer wanted to further their path of innovation by developing the first electric rechargeable jack for trucks. The company already excelled in robotics, electronics, and renewable energy but recognized the need for hydraulic expertise. After exploring various suppliers, Star’s custom hydraulic cylinders surpassed the competition.

SOLUTION

The Star Hydraulics engineering team collaborated with the customer’s engineers to build the ideal product. This partnership led to Star leveraging its expert knowledge in hydraulics to engineer a multi-stage cylinder tailored to meet the customer’s dimensional requirements. It also met the capacity requirement of hoisting up to forty tons, while eliminating the need for cumbersome air hoses. Additionally, being a U.S.-based company that insources its components, eased the customer’s concerns about quality and reliability. Star ensures the highest quality standards by testing all products.

RESULT

The customer was successful in creating a product that makes truck jacking 85% faster. Furthermore, by incorporating Star’s custom solution cylinder, the product enhances safety and ergonomics. Utilizing this method reduces the time spent kneeling by approximately 95% when compared to pneumatic truck jacks. This translates to reduced downtime, fewer injuries, and lower expenses.

“Star Hydraulics partnered with us to provide a custom solution that reinforced our position as innovators. Their proven expertise, coupled with the high quality and reliability of their products, solidified our trust, and confirmed that they were the best supplier for us.”
- Chris Rourk, Director of Engineering, Volta Ion