

Liquid Dispensing Pipette

20DAM LINEAR STEPPER MOTOR



PROBLEM

A leading global manufacturer of precision measurement devices was seeking a motion solution to improve an existing liquid dispensing pipette. This customer required a stronger, lighter solution than they were currently using, but did not want to change the size of the product.

SOLUTION

Portescap was selected based on its expertise in micro-motion technology, ability to customize and excellent engineer-to-engineer communication. Portescap engineers recommended a customized version of the 20DAM linear stepper motor. The 20DAM offers linear travel per step as small as 0.0254 mm which provides very accurate measurements. This product can also be customized with different coils for optimal performance at different drive voltages. The customer was pleased to have a stronger, lightweight version of their product. The result exceeded their expectations and provided their customers with a more reliable laboratory device.

KEY HIGHLIGHTS

- High continuous linear force output for size
- Cost-effective, compact design for reduced integration costs
- Adaptable multiple screw leads available for optimized resolution, force or speed

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