



CUSTOMER SUCCESS STORY

See How Parker's Right-Angle Gearbox Met the Requirements of a Customer's Demanding Application

CHALLENGE

A data security customer that builds intelligent tape libraries for archived, tiered storage workflows was seeking a compact linear actuator solution. The customer's tape libraries efficiently move data tapes from the storage location to a tape reader.

The linear actuator was a belt driven product and as a result needed a gearbox for a better inertial match between their motor and their load. This would result in the tape reader's system being responsive, accurate, and fast when moving tapes from point A to B.

Due to the motor's small stature, its torque was limited. As a result, the gearbox efficiency needed to be greater than its standard.

SOLUTION

Working with the customer to match Parker's product offering to their application requirements, a customized RS Series - Gen II Stealth High Precision Right-Angle Helical Planetary Gearhead offered the following:

- A right angle 60mm frame size gearbox with a mounting kit to adapt directly to customer's motor, satisfying their requirement for a compact solution.
- A 40:1 gear ratio providing an inertia match between the motor and load to less than 10:1, resulting in a stiff, responsive, and accurate solution for moving the tapes from point A to B.

Market

Data Security

Customer

A data security customer that builds intelligent tape libraries for archived, tiered storage workflows.

Application

Intelligent tape libraries

Solution

Customized Right Angle
Parker RS Series Gearbox

Results

- Delivered a working prototype
- Proved efficiency in a compact design
- Featured a custom right-angle design
- Led to a standard product purchase

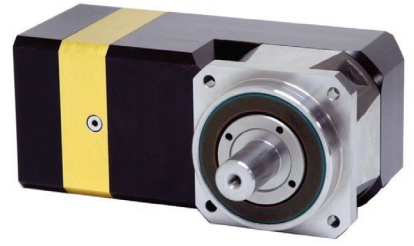
ENGINEERING YOUR SUCCESS.

- A gearbox input modification offering a low start-up torque not to exceed .15 Nm. This feature allows the chosen motor to have enough power to efficiently drive the application.

Other customer requirements fulfilled by Parker included custom lubrication, a custom product label for their own internal tracking, along with a single part number for both the gearbox and mounting kit for ease of ordering.

RESULTS

Parker's RS Series – Gen II Stealth High Precision Right-Angle Helical Planetary Gearhead provided the customer with a working prototype, proving its efficiency within a more compact footprint based on the custom right-angle design. The success of the prototype resulted in a standard buy of this customized product.



RS Series - Gen II Stealth High Precision Right-Angle Helical Planetary Gearhead

“The Parker gearbox product line has been in production for over 25 years. It has had success in thousands of applications around the world and can be depended on for its high level of performance, rugged design, and proven quality. With design engineering, and manufacturing, happening under one roof in our New Ulm, MN facility we are able to also offer unique, customized solutions to meet requirements that our competitors cannot.”

– Jeff Nazzaro, Parker Business Development Manager



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