

# Application Story

***“....And I wonder if it will stay.... My little runaway....”***

**What is this lawn mower clutch/brake doing in a carpet cleaning van?**

**W**hen it comes to carpet cleaning, The Butler Corporation sets one of the highest bars in the industry for performance and service. Butler has been using an Ogura clutch on their vans' high pressure water pumps for many years. So it was logical that when they needed a new solution for handling and storage of their large vacuum hose reels, they came to Ogura. Butler's engineers were looking for a compact design that offered functionality and reliability at a good price.



*The Butler System in a carpet cleaning van*

This lawn mower clutch/brake is typically mounted on a small gas or diesel engine used to start and stop rotating lawn mower blades. Ogura and Butler had an “out of the box” idea to use it a little differently... The clutch/brake is mounted on the output shaft of the mo-

tor/gearbox and the output flange is connected to the side wall of the hose reel.

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**Tensioning Torque:** During use, this large vacuum hose reel is unwound manually from the carpet cleaning van parked in the driveway and brought (pulled by hand) to the location needing the cleaning, perhaps hundreds of feet away. With no power applied, the mechanical brake in this clutch/brake delivers 3lb-ft of holding torque which is just the right amount to keep the hose from unspooling and running away too quickly. Also, without power applied, the clutch is disengaged, meaning that the drive motor is uncoupled.

**Rewinding:** When the job is completed and rewinding is required, the electromagnetic clutch is energized/engaged, and the 12 VDC drive motor gearbox assembly does the rewinding effort. The clutch delivers 90lb-ft of torque without slipping.



*The Butler Hose Reel*



*Ogura GT2.5-DC01 Clutch/Brake*

**Holding Brake:** When the hose is wrapped around the spool during transport it is subject to road vibration. The brake has enough holding torque to keep the spool safely in its place.

The Ogura GT2.5-DC01 Clutch/Brake actually accomplishes all of these functions in a one-piece design allowing for constant drag during unspooling, inline coupling to the drive motor for rewinding, and power-off braking to hold the spool while in transport. This cost-effective device with a thin profile fits in the available space, works off 12 VDC, and is easy to install.

No heat or fumes are emitted during use, so it is safe for use inside of the vehicle. Readily available from stock in our New Jersey warehouse, this Clutch/Brake *cleans up* in this unusual application.

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