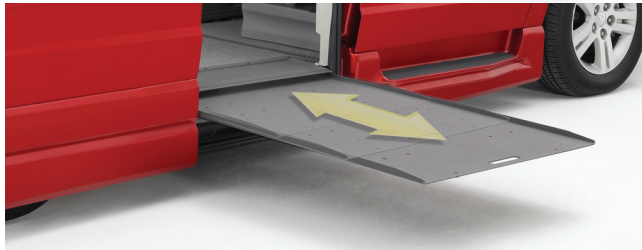


**APPLICATION SOLUTION: Wheelchair Ramp Lift**



**Product Family:** Power Transmission  
**Product Used:** Float-A-Shaft® Gearbox  
**Product Type:** Standard Foot Mounted Model

**Application Requirements**

- Limited space (4-inch envelope)
- Fast, easy use for emergency purposes
- NHTSA compliant

**Application Description:**

Manual override on vehicle wheelchair ramp

**Challenge:**

BraunAbility, a manufacturer of mobility equipment for specially equipped vans needed a way to manually operate their electric/hydraulic wheelchair ramp should the motor encounter power loss. The lift, which is floor mounted into a Chrysler mini-van, required the manual override solution to be compact, cost-effective and safe.

**Tolomatic Solution:**

A compact style Float-A-Shaft right angle gearbox with a foot mount configuration and a 1:1 ratio was selected to conform to the 4-inch envelope requirement, and mounted opposite the motor on the ramp frame. A small hole was retrofitted into the floor of the vehicle above the gearbox, providing access to the Float-A-Shaft's gearing mechanism via a key. Once inserted and turned, the key (much like a tire iron), engages the gears and moves the lift outward.

**Customer Benefit:**

- Maximized speed for given envelope
- Minimized cost
- Safe, easy access to manual feature