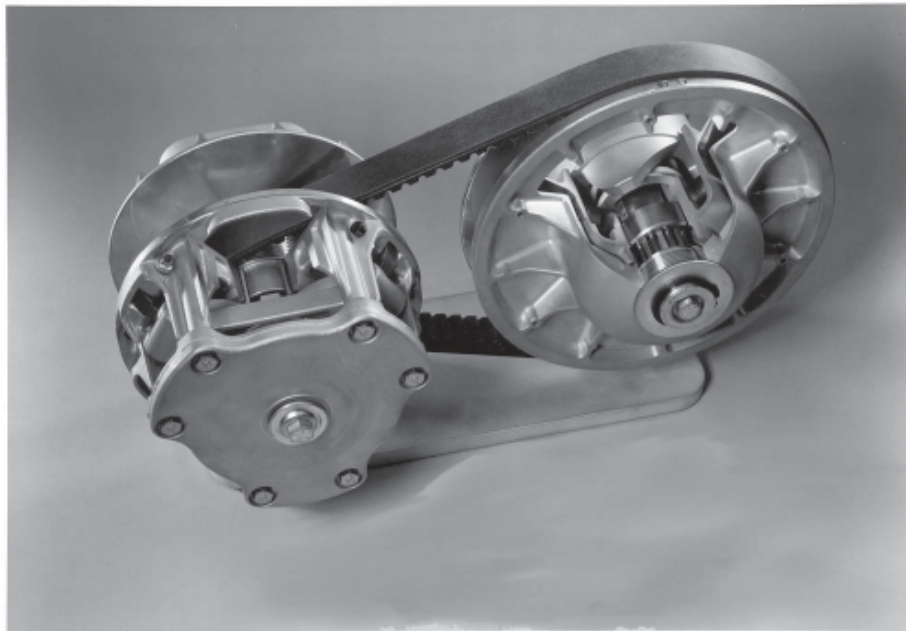


Engine Braking CVT Systems



Hilliard's patent pending Engine Braking CVT (Continuously Variable Transmission) Systems utilize the engine compression to produce a braking effect. The CVT automatically senses both the engine RPMs and the torque load.



How The Design Works

Use of a tight belt along with a bearing-supported overrunning clutch in the driver of the CVT allows the engine to idle without transferring torque to the driven clutch. A conventional CVT cannot effectively utilize the engine compression for braking when decelerating or descending steep hills. However, the Hilliard Engine Braking CVT Systems force a faster than normal downshift as the accelerator is released. This automatically adjusts the CVT's ratio, minimizing the vehicle wheel speed, providing better control on deceleration and descent.

Horsepower Range: 9 - 30 HP

Advantages and Benefits

- Safer Operation
- Increased Vehicle Control on Hilly Terrain
- Reduced Wear on Standard Braking System
- Can be Tuned for any Utility Vehicle Configuration

Applications

- Utility vehicles
- Golf cars
- City cars



Design Information

Engine Shaft Size _____

Hitch Capacity _____

Transmission Shaft Size _____

Maximum Engine RPM _____

Engine Horsepower _____

Engine Idle Speed _____

Maximum Gross Vehicle
Weight Rating _____

Crankshaft to Transmission Input
Center Distance _____

The Hilliard Corporation

100 West Fourth Street, Elmira, NY 14902-1504, U.S.A.

Phone: 607/733-7121 Fax: 607/737-1108

<http://www.hilliardcorp.com>