Hilliard
MOTION CONTROL DIVISION
DRIVETRAIN PRODUCTS

DRIVE TRAIN PRODUCTS

CVT Systems

Patented Belt Protection Technology — with or without engine braking

Hilliard's Continuously Variable Transmission

The Hilliard Corporation has designed a CVT system that is more advanced than any other belt drive system currently available on the market. The Hilliard clutch system utilizes a tight belt which allows for seamless engine braking and belt protection at start up and during overload situations, to extend belt life. The Hilliard CVT system is designed to fit a wide variety of clutch envelopes so no expensive modifications are required for new equipment or on replacements for equipment currently in the field. Keep your construction projects on time and on budget with fewer maintenance intervals.

Hilliard's Belt Protection

The patented Hilliard CVT system provides constant belt grip, even at idle which protects the belt from scrubbing during start-up. Our unique belt protection design allows the torque limiting mechanism to slip and absorb all of the energy instead of damaging the belt. This provides for a much longer belt life. Severe applications have seen belt life increase from 200 hrs to over 1000 hrs. The design of torque limiting mechanism allows the torque output of the system to increase to 150% of a standard CVT system.

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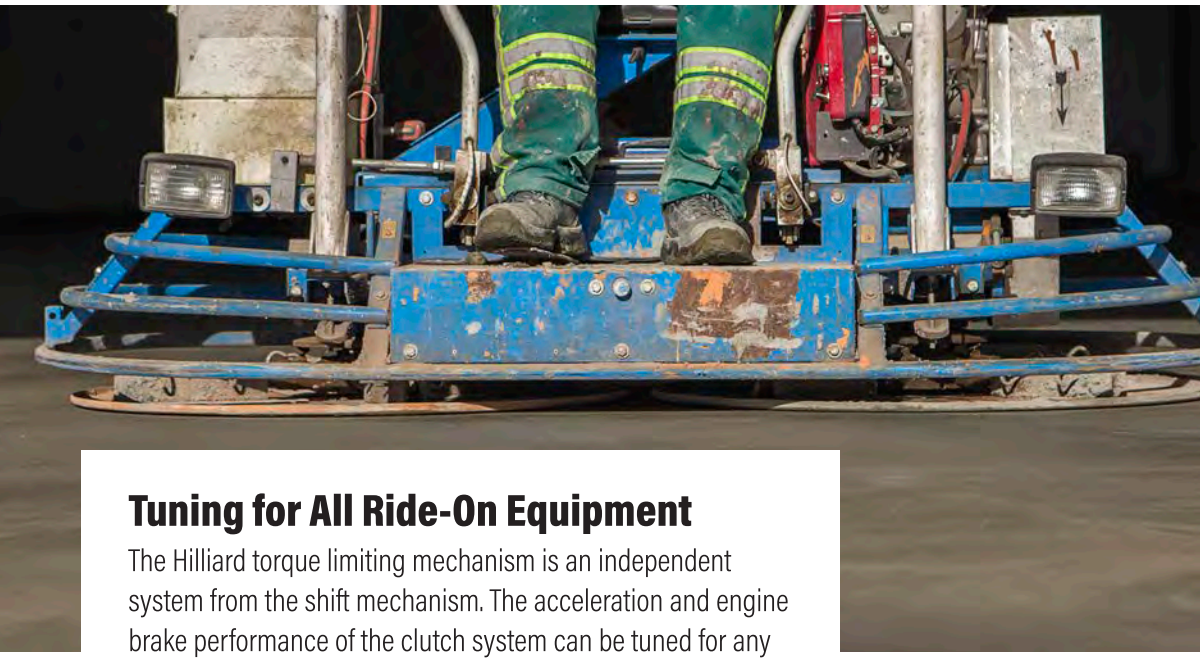
DRIVE TRAIN PRODUCTS

CVT Systems

with Engine Braking and Belt Protection Technology



Tuning for All Ride-On Equipment

The Hilliard torque limiting mechanism is an independent system from the shift mechanism. The acceleration and engine brake performance of the clutch system can be tuned for any platform without affecting belt protection. The Hilliard clutch system is currently tuned for many platforms in the industrial market, including power trowels, floor polishing, and other ride-on equipment.

World-Class Patented Braking Technology

The patented Hilliard CVT system incorporates a one-way overrunning clutch into the system to allow consistent, seamless and reliable engine braking to fully utilize the compression of the engine. The system provides engine braking from high RPM all the way down to and including idle. Experience world-class performance with our continuous improvement of the drive ratio to maintain optimum torque and speed on all phases of industrial equipment.

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