

**Eaton Torque Limiting Couplings**  
Airflex product line



**Eliminate system overloads.  
Maximize mill uptime.**

**EATON**

*Powering Business Worldwide*

# Fast, reliable driveline protection.

With grinding mill drivelines migrating from clutch-based drivelines to variable frequency drive (VFD) systems, a new generation of torque couplings answers the call to protect your equipment from damage during unexpected system overloads.

Eaton, a world leader in clutch-based drive trains for grinding mills, introduces an advanced solution: Airflex<sup>®</sup> Torque Limiting Couplings (TLC). This easy-to-use solution helps prevent damage to critical, high-value driveline components due to system overloads.

## The benefits of Eaton's Airflex TLC include:

- Continuously monitors torque to prevent overload of the motor and damage to costly equipment
- Resets and restarts instantaneously, ensuring maximum uptime for your mill operation
- Increased torque capacity provides downsizing opportunities, potentially reducing your costs
- A simple design that extends wear part life further and delivers long-term durability



Torque Limiting Couplings

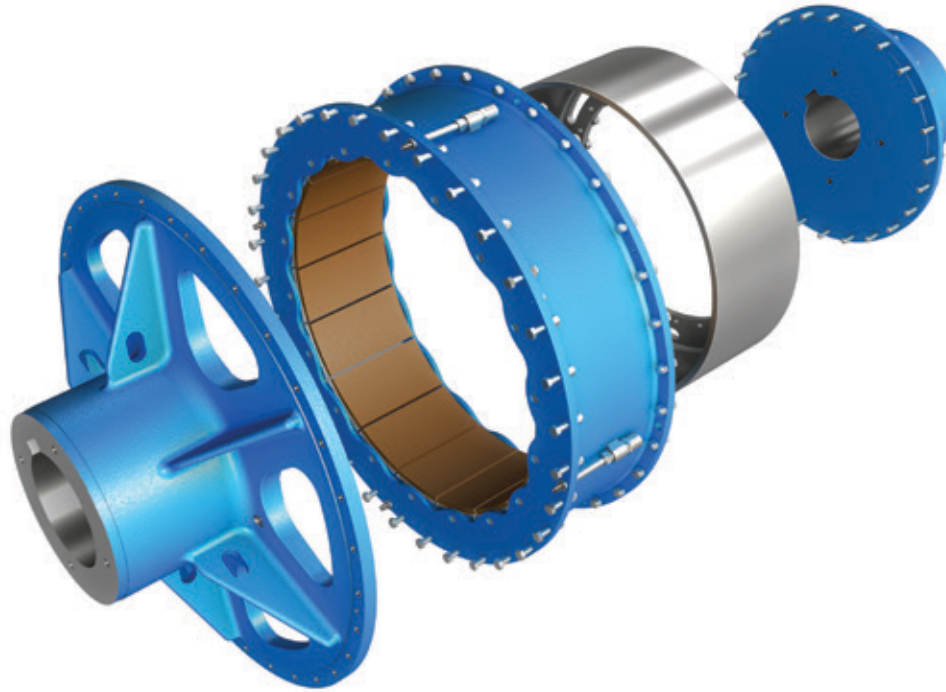


# Avoid the hassle and downtime of system overloads

Conventional torque limiting systems are cumbersome, often requiring a complete mill shutdown and time-consuming mechanical operation to reset.

Eaton's Airflex TLC features a pneumatic system that fills with air and is engaged at startup. Required air pressure is

set as needed and monitored by the Slip Detection Controls. When a system overload is detected, the air is released and the TLC disengages automatically before damage to driveline components can occur. Reset is instantaneous by simply reapplying the required air pressure to the TLC system.

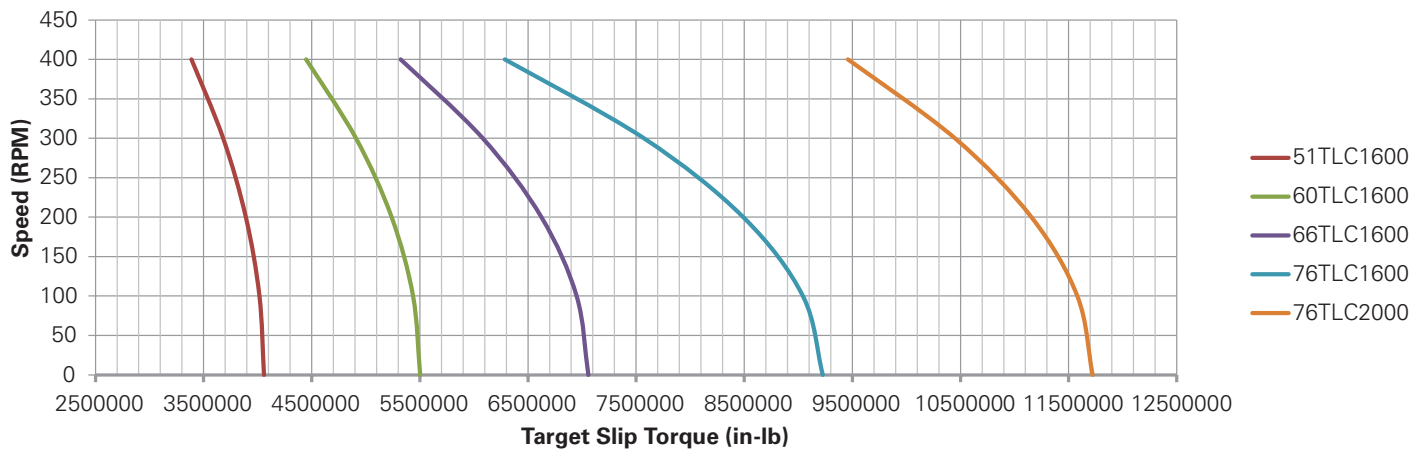


Eaton's Slip Detection Control technology automatically disengages the TLC if slippage is detected between the motor and the pinion. It also detects fast starts and over-programmed starts, reducing equipment downtime and preventing driveline damage.



Advanced Slip Detection Control

**Airflex Torque Limiting Coupling Selection Chart**





## The simple solution to **driveline protection.**

Visit [eaton.com/AirflexTLC](http://eaton.com/AirflexTLC) to learn how Eaton's new Torque Limiting Coupling will keep your mill up and running.

Eaton's Airflex clutches have been the leader in grinding mill clutches for more than 25 years. Airflex torque limiting couplings represent the next generation of driveline protection, paving the way to the future of grinding mill technology.

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Printed in USA  
Document No. E-MEOD-BB008-E1  
October 2015