

Friction



Dump Application

Friction Selection Guide

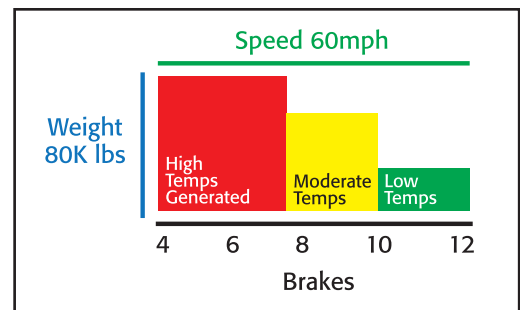


Heat Management

Heat Is Your Friend

There is only one way to safely stop your vehicle. The dynamics of vehicle braking comes down to converting the energy that your vehicle represents – kinetic energy (mass in motion) – into another form of energy – HEAT. This is precisely what the brake system is designed to do. Each brake represents a “heat generator” on the vehicle. The more brakes there are, the higher the capacity the system has to generate heat – it has the ability to convert more kinetic energy into heat energy. This is why vehicles designed to carry heavier loads have more braking wheel-ends.

A vehicle with a loaded weight of 80,000 lbs traveling at 60 MPH represents an amount of kinetic energy that is the same no matter what kinds of vehicles you are comparing. Ultimately, the same amount of kinetic energy must be converted to heat energy in order to make the stop. Simply put, more brakes means lower temperatures generated at each wheel end to make the stop. Fewer brakes means higher temperatures to make the same stop.



Heat Is Your Enemy

Generating heat is the key to efficient stopping. There are however instances when “unwanted” heat is introduced into the braking equation that makes the job more difficult. Examples of these are:

- Out of adjustment brakes – if one or more brakes aren’t working properly, the other brakes on the vehicle have to compensate and generate more heat - this leads to imbalanced braking and uneven lining wear.
- Steep Grades – the effort to control speed while going downhill leads to brakes constantly generating heat with little recovery time – this causes brake lining performance to decline resulting in brake fade.
- Aggressive Driving – drivers who wait longer to apply the brakes or drive faster generate higher brake temperatures – a major factor that reduces the life cycle of brake lining along with safety concerns.
- Over Loaded Vehicles – carrying weights beyond brake system design not only sacrifices safety, but also leads to premature wear on braking components including the brake lining.

Haldex High Performance Brake Linings - The Premium Solution

When it comes to high performance braking, it’s all about managing heat. Haldex offers the industry’s premium solution relative to safe and efficient brake lining performance. The Haldex specification recognizes and accounts for situations when unwanted heat becomes a part of your braking equation. This design utilizes premium compounds that are resistant to high temperatures so you can be assured that no matter the situation, heat is being managed at an extraordinary level.



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Application Description

Normal-Duty Cycle

Mostly (90%+) Flat Roads Light Stop-and-Go

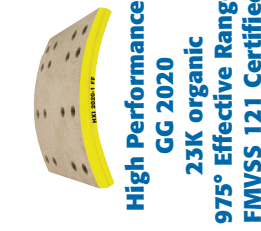
Heavy-Duty Cycle

Steep Grades Common, Stop-and-Go/High Speed Stops

 <p>2-Axle Dumps GVWR <40,000 LBS Available Brake Power – Low Potential Load Factor – Low</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GD 2016</p> <p>Load Factor Extreme Haldex GG 2020</p> <p>Steer Axle - Haldex GD 2016</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GG 2020</p> <p>Load Factor Extreme Haldex GG 2020</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GG 2020</p> <p>Load Factor Extreme Haldex GG COMBO</p> <p>Steer Axle - Haldex GG 2020</p>
 <p>3-Axle Dumps GVWR <65,000 LBS Available Brake Power – Moderate Potential Load Factor – Moderate</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GG 2020</p> <p>Load Factor Extreme Haldex GG 2020</p> <p>Steer Axle - Haldex GD 2016</p>	<p>Load Factor Low Haldex GD 2020</p> <p>Load Factor Moderate Haldex GC COMBO</p> <p>Load Factor Extreme Haldex GZ SEMI</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GG 2020</p> <p>Load Factor Moderate Haldex GC COMBO</p> <p>Load Factor Extreme Haldex GZ SEMI</p> <p>Steer Axle - Haldex GG 2020</p>
 <p>4-Axle Dumps GVWR <80,000 LBS Available Brake Power – Moderate Potential Load Factor – High</p>	<p>Load Factor Low Haldex GD 2020</p> <p>Load Factor Moderate Haldex GC COMBO</p> <p>Load Factor Extreme Haldex GZ SEMI</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GZ SEMI</p> <p>Load Factor Moderate Haldex GZ SEMI</p> <p>Load Factor Extreme Haldex GM SEMI</p> <p>Steer Axle - Haldex GC 2020/2035</p>	<p>Load Factor Low Haldex GZ SEMI</p> <p>Load Factor Moderate Haldex GZ SEMI</p> <p>Load Factor Extreme Haldex GM SEMI</p> <p>Steer Axle - Haldex GC 2020/2035</p>
 <p>5/6-Axle Dumps GVWR <120,000 LBS Available Brake Power – High Potential Load Factor – Extreme</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GG 2020</p> <p>Load Factor Extreme Haldex GC COMBO</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GZ SEMI</p> <p>Load Factor Moderate Haldex GM SEMI</p> <p>Load Factor Extreme Haldex GM SEMI</p> <p>Steer Axle - Haldex GC 2020/2035</p>	<p>Load Factor Low Haldex GZ SEMI</p> <p>Load Factor Moderate Haldex GM SEMI</p> <p>Load Factor Extreme Haldex GM SEMI</p> <p>Steer Axle - Haldex GC 2020/2035</p>
 <p>7+-Axle Dumps GVWR >120,000 LBS Available Brake Power – High Potential Load Factor – Extreme</p>	<p>Load Factor Low Haldex GD 2016</p> <p>Load Factor Moderate Haldex GG 2020</p> <p>Load Factor Extreme Haldex GC COMBO</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GG 2020</p> <p>Load Factor Moderate Haldex GC COMBO</p> <p>Load Factor Extreme Haldex GC COMBO</p> <p>Steer Axle - Haldex GG 2020</p>	<p>Load Factor Low Haldex GG 2020</p> <p>Load Factor Moderate Haldex GC COMBO</p> <p>Load Factor Extreme Haldex GZ SEMI</p> <p>Steer Axle - Haldex GG 2020</p>

Haldex High Performance Brake Linings for Dump Applications

LF25115 10/10 US ART ONLY



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