



BRAKE SYSTEMS FOR ARTICULATED DUMP TRUCKS

Operating under harsh environmental conditions, articulated dump truck (ADT) applications require robust brake, friction and hydraulic actuation product solutions. With over seventy years of experience in developing products for the world's most advanced brake system solutions to the unique standards and specifications of global OEM's, Carlisle understands the complex requirements of mobile mining and construction equipment.

Today Carlisle remains recognized as an off-highway industry expert in the design and manufacture of premium quality, motion control products.

HYDRAULIC ACTUATION



1100 Series Power Valve

Single and tandem circuit, modulating hydraulic control valve.

- Smooth modulation at all output pressures for Automotive style pedal feedback
- Rugged construction and thorough testing ensure superior performance and endurance for even the most severe job applications
- Externally adjustable to provide precise pressure settings
- Custom pedal and mounting options for simplified cab installation



Brake Control Manifold

Designed around the unique needs of the end user to consolidate functions and simplify vehicle plumbing.

- Parking brake control valve
- Spotting option
- Slippery road option
- Brake circuit isolation

WET FRICTION MATERIALS



Brake Materials

Carlisle has developed a variety of friction materials with high energy absorption capability and smooth engagement characteristics.

- High heat capability
- Ability to withstand high unit loading
- Smooth engagement characteristics
- Resists glazing from oil abuse
- Comprehensive material technology coverage
- Manufactured in ISO certified facilities



Power Transmission Materials

Carlisle has developed a wide range of friction materials for powershift and counter shaft transmission applications.

- Oil cooled friction materials with high energy capacity
- Tolerance to operate under very high unit loading
- High dynamic and static coefficients of friction
- Available in a range of thicknesses and oil groove patterns
- High power
- Minimizes "hot spotting" of opposing plates
- Smooth engagement characteristics

PARK & EMERGENCY BRAKES



SA Series SAHR Brake

Spring-applied hydraulically released park brakes.

- Open caliper for easy access and serviceability
- Simple lining adjustment
- Lining retraction spring eliminates drag
- Organic or Sintered Metallic Linings Available
- Low release pressure options available



G Series

Spring-applied hydraulically released brake brakes.

- Ductile iron casting for high strength
- G1: manual or automatic slack adjusters, dynamic stop capabilities, and less fade in emergency than drum brakes
- G2: manual adjuster to compensate for lining wear, and uses mineral or brake fluid



To learn more about Carlisle's mining vehicle braking systems contact one of our sales offices or visit www.carlislecbf.com

United States

6180 Cochran Road Solon,
OH 44139 USA
440 528 4000
440 528 4099 fax

Europe

Via Pacinotti 9
Orzinuovi (BS) 25034 Italy
+ 39 030 994 1016
+ 39 030 994 2768 fax

Asia-Pacific

Suite E & F, 9th Floor Majesty Building
No. 138 Pudong Ave. Shanghai, P.R. China 200120
+ 86 21 6100 5222
+ 86 21 6100 5220 fax