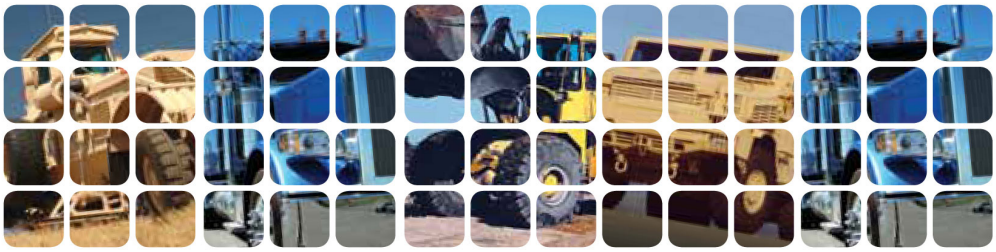

AxleTech International
A GENERAL DYNAMICS COMPANY

Hydraulic Dry Disc Brakes
HDM or HDA Models

OVERVIEW

AxleTech hydraulic dry disc calipers are available in various sizes and mounting configurations. The 4-piston and 6-piston varieties cover a wide range of heavy duty applications including loaders, forklift trucks, off-highway rigid haul trucks, articulated haulers, reach trucks, and stationary equipment.

These high capacity calipers have a robust design and are easy to service - which can lower downtime and therefore minimize costs. The fixed caliper and disc design is easily maintained and brake pads can be replaced without removing the caliper or disconnecting the hydraulics. They can be mounted in different configurations, combinations, and on a variety of disc diameters.

Hydraulic actuation on some models is available up to 2500 psi with seal availability for either mineral oil fluids (in models designated HDM) or automotive brake fluid, non-mineral oil / DOT4 (in models designated HDA).

Some models as well as most serviceable components are directly interchangeable with similar earlier 4-piston and 6-piston calipers as shown in AxleTech's Hydraulic Dry Disc Brakes—Parts Catalog.

SPECIFICATIONS

Model	Typical Usage Vehicle	Disc Diameter and Thickness Range Inches (mm)	Maximum Pressure psi (bar)	Wheel Rim Size Inches (mm)	Maximum Torque lb. in.	Pistons Size Inches (mm)	Pistons Per Caliper	Lining Area Sq. Inches (Sq. mm)
HDM-476 or HDA-476	Lift Truck Loader Articulated Hauler Scraper	18.5 (470) 16-25 Range (406 - 635) 18 (457) Optimum .625 (16)	2,300 (159)	25 (635)	IP x 10.18 x (DR - 1.5)	3 (76)	4	64 (41,280)
HDM-676 or HDA-676	Articulated Hauler Loader	18.5 (470) 1.58 (40)	2,500 (172)	25 (635)	IP x 15.3 x (DR - 1.5)	3 (76)	6	89 (57,405)

NOTE: Engineering approval required on each dry disc brake installation.

Models are available for Mineral Oil or Automotive Brake Fluid DOT-4.

IP = Input Pressure
DR = Disc Radius

FEATURES & BENEFITS

FEATURES	BENEFITS
Self adjustment	Minimizes fluid displacement
Hydraulic apply	High pressure / higher torque capable
Lining compounding	Asbestos-free, latest technologies, and fade resistant
Alternative seals available	Allows choice of fluids
Proven field components	Serviceability and parts availability

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