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FEEL THE EXPERIENCE

2004 Product Guide

DISC BRAKES
HAYES

Feel the experience

THE TRAIL LESS TRAVELED

Just north of Milwaukee, Wisconsin, is a brake company that will stop at nothing when it comes to performance, reliability and safety. Since 1946, Hayes Brake has set and surpassed industry standards for performance under the most extreme conditions. It's no wonder Harley-Davidson® has relied on us since 1972, when the first disc brake was shipped for the FLH model. And why Polaris® continues to count on us for hub/disc, brake calipers and master cylinders.

In 1997 we entered the mountain bike market and Hayes Disc Brake was born. Using a unique "cells of excellence" manufacturing system, supported by ISO 9001 quality controls and the latest Advance Product Quality Planning (APQP) techniques, ensures that performance is built into every brake we produce.

At Hayes, the people who design and test our brakes are the same people you pass on the trail. They know brakes because they ride and listen to what other riders have to say. And they are not satisfied until they enhance, test and redesign products with the stopping power, dependability and safety features that you won't find with other brake systems. That means testing in the lab, on the trail and on the bikes of some of the world's best pro racers and riders.

We won't stop until we get it right.

And since we believe our service and expert technical support should be as responsive as our brakes, you can expect real people offering real solutions. Really.



**ATTENTION
TRAIL USERS**

**ARE YOU FEELING A
LITTLE X-COUNTRY,
OR A LITTLE BIT
DOWNHILL?**

6
ROTOR
The Cross-Country Series is designed for XC and Urban riding applications. This series combines lighter weight, with the proven Hayes all-conditions performance.

8
ROTOR
The Heavy Duty Series is designed for Freeride and Downhill applications. This series provides 30% more braking power and is the most Durable Hayes package. You get the "Moto" look, with the power to back it up.

HFX MAG PLUS

Titanium Hardware



Carbon Lever Blade

Magnesium Master
Cylinder Body



6" Mud Cutter Wavy rotor
optional

Dual Piston
G2 Caliper

(High-end Full Hydraulic)

- Ultralite titanium hardware kit
- Carbon fiber lever blade
- Magnesium flip-flop design master cylinder allows lever to be mounted on either side of bar

- Two piece master cylinder allows lever to be removed without removing shifters and grips
- "All-weather" pad compound
- Black Kevlar hose
- System weight 368 grams

HFX MAG HD



Magnesium Master
Cylinder Body



8" rotor

Dual Piston
G2 Caliper

(Aggressive Full Hydraulic)

- 8" rotor delivers the ultimate stopping power with the "Moto" look
- Two piece master cylinder allows lever to be removed without removing shifters and grips
- Sintered metallic brake pads
- Open back caliper and 8" rotor combine for a cooler running system
- Black Kevlar hose
- System weight 520 grams

HFX MAG xc



Magnesium Master
Cylinder Body



6" rotor

Dual Piston
G2 Caliper

(High-end Full Hydraulic)

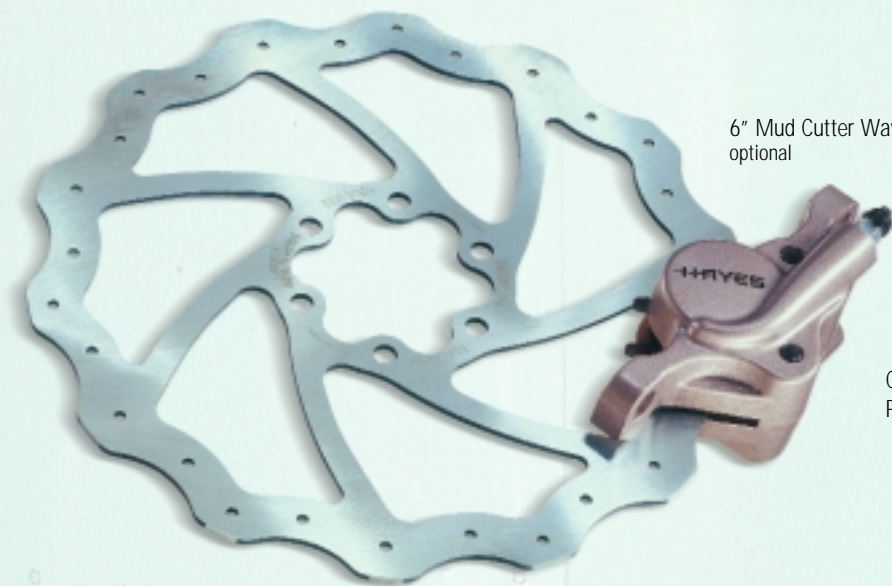
- Magnesium flip-flop design master cylinder allows lever to be mounted on either side of bar
- Two piece master cylinder allows lever to be removed without removing shifters and grips
- Sintered metallic brake pad compound
- Black Kevlar hose
- System weight 418 grams

HFX9 CARBON



Carbon Lever Blade

Compact aluminum body



6" Mud Cutter Wavy rotor optional

Compact Dual Piston Caliper

(Midrange CrossCountry/Freeride)

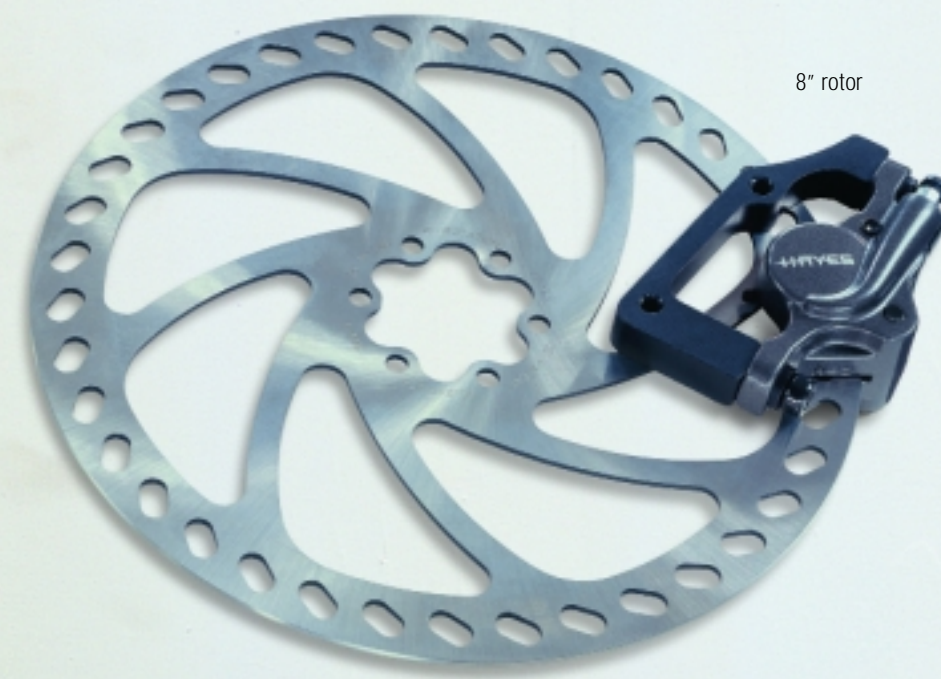
- Flip-flop design master cylinder allows lever to be mounted on either side of bar
- Reservoir system compensates for fluid expansion caused by heat cylinder allows lever to be mounted on either side of bar

- Semi-metallic pads for progressive feel and quiet operation
- System weight 420 grams
- System weight 397 grams with optional Titanium Kit

HFX9 HD



"Heavy Duty" Logo Finish



8" rotor

Dual Piston G2 Caliper

(Mid-range Full Hydraulic)

- Compact Aluminum body and lever blade design
- Reversible design master cylinder allows lever to be mounted on either side of bar

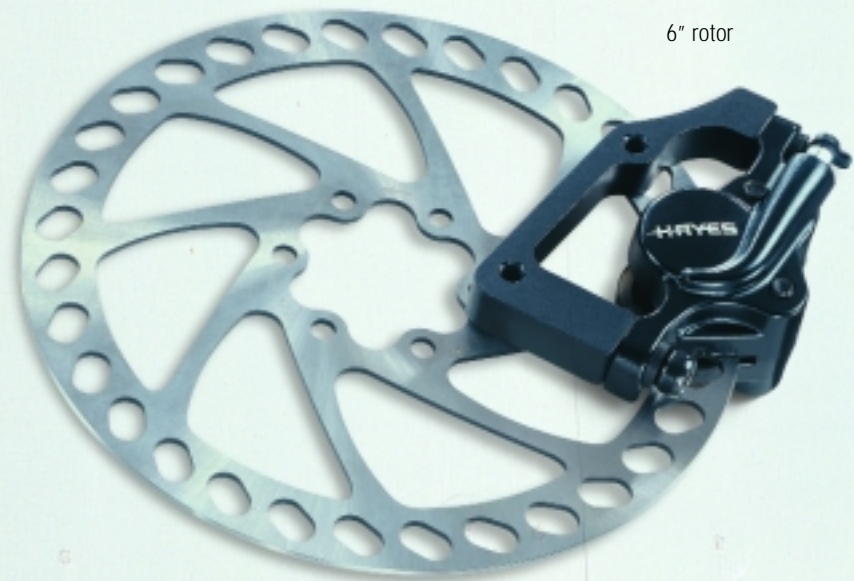
- Reservoir system compensates for fluid expansion
- All-weather pad compound
- Open back caliper and 8" rotor combine for a cooler running system
- System weight 530 grams

HFX9 xc



Compact aluminum body

Non-Traditional Master Cylinder distinguishes your bike



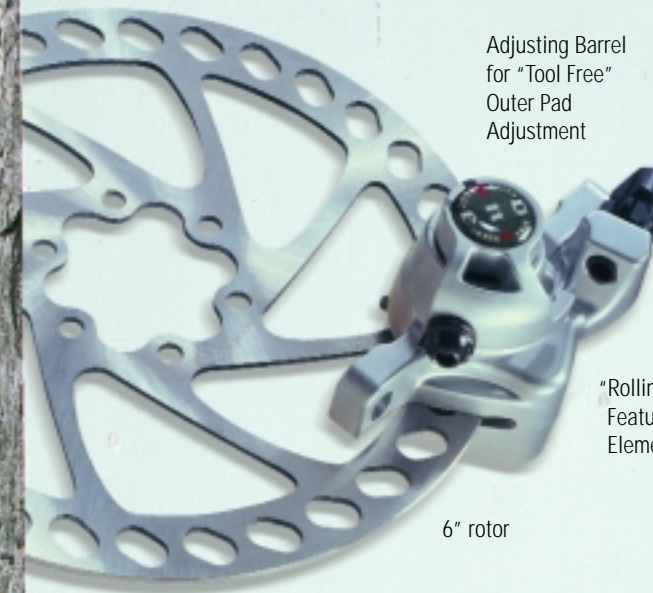
6" rotor

Dual Piston G2 Caliper

(Mid-range Full Hydraulic)

- Compact aluminum body and lever blade
- All new design combines looks, function and durability
- All-weather pad compound
- Reversible master cylinder mounts
- Reservoir system compensates for fluid expansion
- System weight 430 grams

Mx1 xc



Adjusting Barrel for "Tool Free" Outer Pad Adjustment

"Rollin' Internals" Feature All Rolling Elements

6" rotor

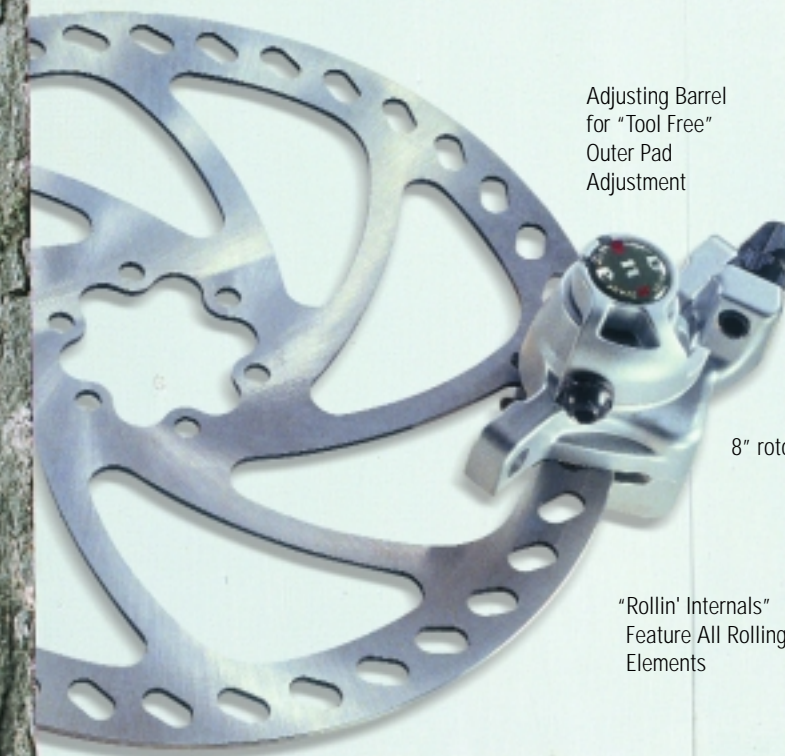
(Optimized linear pull brake)

- Designed to maximize the performance of the MX1 and MX2
- Works with linear pull brakes
- Forged lever blade for maximum strength and stiffness
- Weight 98 grams per lever

HML1 optional



Forged Lever Blade



Adjusting Barrel for "Tool Free" Outer Pad Adjustment

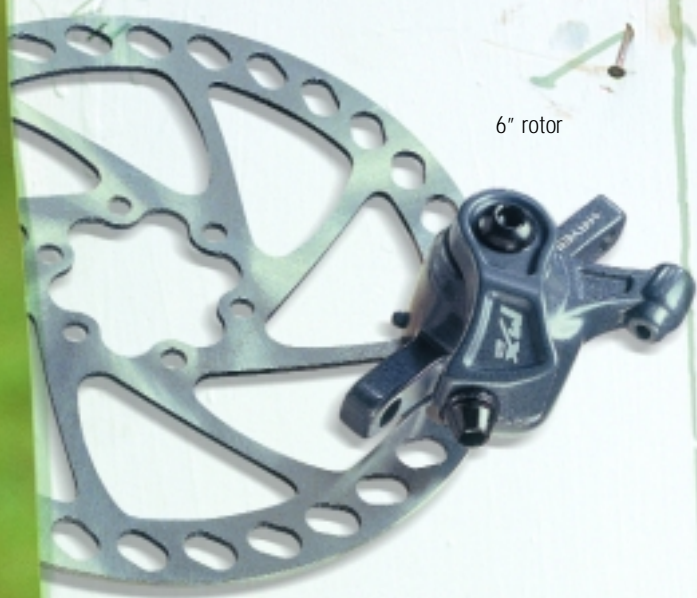
8" rotor

"Rollin' Internals" Feature All Rolling Elements

Mx1 HD

(Aggressive Mechanical)

- Fluidless system, uses standard lever, cable and housing
- Adjuster barrel for "tool free" easy pad adjustment
- All-weather brake pads
- Complete ball bearing system
- Mounting bracket system for easy setup and adjustment
- System weight 427 grams



6" rotor

MX2 XC

(Entry Level Compact Mechanical)

- Progressive friction material for modulation
- Compatible with all linear pull levers
- 5mm allen key inner pad adjustment
- Compatible with all Hayes brackets
- Mono-block caliper design
- System weight 314 grams

- (Optimized linear pull brake)
- Designed to maximize the performance of the MX1 and MX2
 - Works with linear pull brakes
 - Forged lever blade for maximum strength and stiffness
 - Weight 98 grams per lever



HML1

optional

Forged Lever Blade



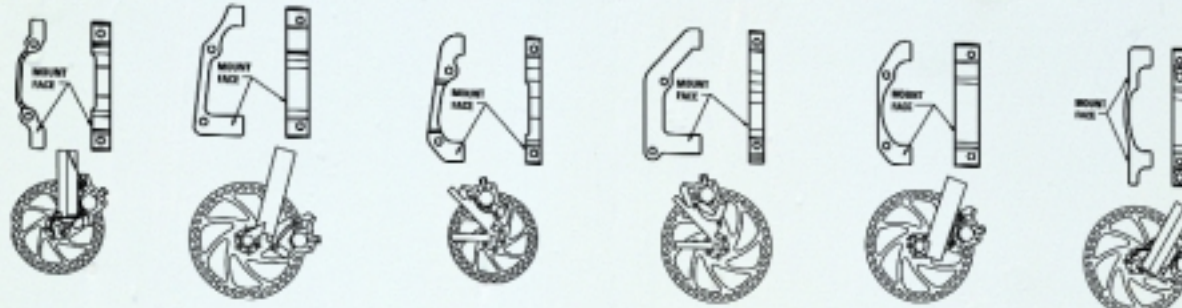
8" rotor

MX2 HD

(Entry Level Compact Mechanical)

- Progressive friction material for modulation
- Compatible with all linear pull levers
- 5mm allen key inner pad adjustment
- Compatible with all Hayes brackets
- Mono-block caliper design
- System weight 414 grams

HAYES ORIGINAL MOUNTING BRACKET SYSTEM



International Std
XC – 6" Disc
Standard Quick
Release Hub

International Std
Downhill – 8" Disc
20mm Hub

International Std
Rear – 6" Disc
Standard Quick
Release Rear Hub

International Std
Rear – 8" Disc
Standard Quick
Release Rear Hub

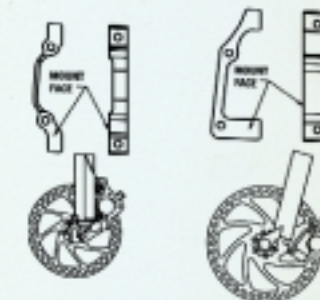
Boxxer
8" Disc
20mm Hub

Manitou
6" to 8" Mount
8" Disc
20mm Hub



All full hydraulic brakes feature the "G2" caliper

- Compact design
- Lower weight
- Alignment and pad wear window
- Caliper window to help dissipate heat
- G2 caliper (74mm) fits most current forks
- Variety of brackets for a variety of fits (6 front, 2 rear – see chart)
- No shims required for installation or adjustment
- Easy setup and adjustment



International Std
XC – 6" Disc
20mm Hub

International Std
Downhill – 8" Disc
Standard Quick
Release Hub

Sintered-Metallic Disc Brake Pads

- All Weather Riding Conditions
- Maximum durability and pad life
- "Solid" lever feel
- Downhill & XC Race Proven
- Shocking stopping power
- Compatible with all Hayes Brakes



This top secret sintered metallic friction material has been winning races since HAYES Disc Brakes started in 1997. If you want the superior power in every type of riding condition, then look no further.

This friction material was developed with the following goals:

- Long wear. Perfect for downhill racing, or day after day of shuttle at the ski hill. Muddy conditions can act like sand paper between your disc and your brake pads this accelerates pad wear. This friction material is your best bet in these conditions.
- Consistent wet power. These pads are virtually unaffected by rain or snow. As the trail changes around you, the braking power remains the same.

Semi-Metallic Disc Brake Pads

- Short Break-in Period
- Reduces temperature
- Quieter braking
- Competitively Priced
- Great modulation
- "Progressive" lever feel
- Compatible with all Hayes Brakes



The HAYES Semi-metallic pads are a great replacement pad if you want silent stopping power and better modulation.

This friction material was developed with the following goals:

- Quieter braking. Disc brakes can make noise in some conditions. This material eliminates, or reduces squeaks and squealing.
- Better modulation. This means you get a "softer" feel at the lever when you brake. Braking power is progressive and consistent throughout each stop.
- Provide a high level of stopping power. Using our Sintered Metallic friction material as the benchmark.

TRAIL
OPEN
WHEN
DRY

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TO PROTECT THE
NATURAL
ENVIRONMENT
PLEASE
STAY ON
TRAIL



**HAYES PROUDLY SUPPORTS
BIKES BELONG AND IMBA**



Hayes Sport Sock black and yellow
or black and grey: S/M, L/XL

GEAR-UP FOR THE TRAIL

visit our online store at www.hayesdiscbrake.com



Hayes Black Baseball Cap with
blue rotor and silver logo: one size fits all



Hayes Red Baseball Cap with black
rotor and silver logo: one size fits all



Hayes Black Bucket Hat with blue
rotor and silver logo: one size fits all



Hayes Grey T-Shirt with red rotor
and black logo: M, L, XL



Hayes Black Tech Shirt with blue rotor
and silver logo: M, L, XL



Charcoal Dickies Jacket with blue rotor
and silver logo: M, L, XL



Hayes Grey Tech Shirt with red rotor
and black logo: M, L, XL