

# HOPE

## TECHNOLOGY

## Hope Tech

HOPE has grown over the past 10 years from a small group of dedicated engineers originating in the Aerospace industry. Then, as now, they were united by enthusiasm for sport on two wheels and by a desire to offer British designed and manufactured products to challenge any in the world.

First came the Mechanical Disc Brake, from this developed a range of hubs expanding to cover the widest range of applications. Next target - Bottom Brackets with their development closely followed by Quick Releases. Now Hope are offering the Hydraulic Disc Brake incorporating all the lessons learned in manufacture and competition and are able to claim No. 1 position in this speciality.

All Hope products have these points in common.

Easily maintained

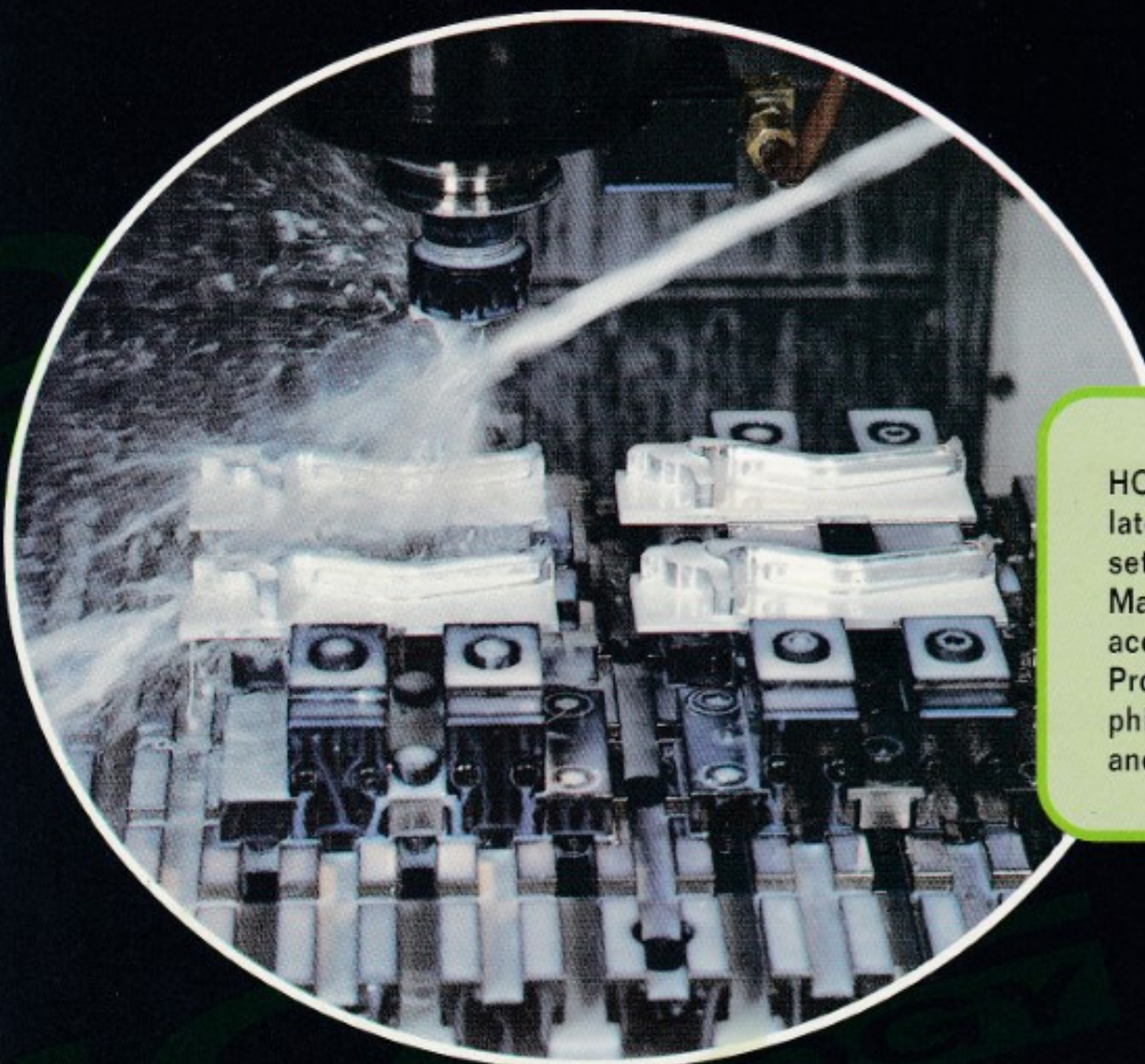
All spares available

Lightweight

Fully serviceable

No compromise in strength or reliability

We pride ourselves in the production of quality cycle products giving continued excellent value for money.



## Manufacturing

HOPE manufacture all machined parts in house using the very latest C.N.C. machinery operated under strict quality control, set up and supervised by skilled engineers.

Manufacturing capability is being constantly increased to accommodate the ever growing demand for Hope products. Product development and improvement is part of our business philosophy together with a commitment to technical excellence and customer service which are unrivalled in the cycle industry.

## MTB Hubs

Hope hubs offer a quality upgrade to any bike. Within the range there are hubs to suit every type of rider, whether recreational riding or competing in world cup events. The Lightweight Front Hub is ideal as a first step up-grade offering cartridge bearings at an affordable price. If suspension forks are being used Hope can offer two different hubs, either the standard Suspension Front Hub which is a quality upgrade to any setup or the Fatso which features an advanced axle design to eliminate virtually all flex from your forks. For the rear either a simple Screw-on Hub with two cartridge bearings and fitting for any standard screw on free wheel or the Ti-Glide Cassette Hub with four sealed cartridge bearings and a bullet proof three pawl ratchet which is widely accepted as one of the strongest, most durable on the international market. The titanium freehub body will accept 7 or 8 speed Shimano Cassette Sprockets.

- 28,32 or 36 Hole Drillings
- 7075 T6 Flange
- Deep Groove Cartridge Bearings
- Ti Glide and Suspension Hub available Splined for Disc.

## BIG'un Downhill Hubs

As downhill bikes become more specific to their discipline Hope has developed a Downhill Dedicated Hub.

The downhill hubs go far beyond the normal criteria for tracking and rigidity set out in the past. It features large cupped flanges with unique spoke configuration that build a much stronger wheel. The design is ideally suited to mounting of disc brakes due to the flange shape but is also available without disc mounting provision. It also has large bore bearings that can accommodate up to a 20mm axle on the front and a 19.5mm rear axle. This means the hub can be used with the many new generation triple clamp forks such as Rockshox DHO and Cannondale Moto Forks as well as other standard forks. The rear BIG'un incorporated a new larger diameter 36 tooth micro engagement ratchet that not only improves forward pickup but also improves its torque loading capacity essential to withstand the punishment downhill hubs received during racing.

- 32 or 36 Hole Drillings
- Disc Compatible
- Non-Disc Compatible
- 7075 T6 Hub Bodies
- 19.5mm Diameter 7075 T6 axle

## Hope Hydro

The HOPE HYDRO is a full hydraulic system that has been specifically designed for use with bicycles. It is considered by many top riders to be the best disc on the market. This is due to its outstanding features including drag free running, consistent high power and lightweight CNC construction.

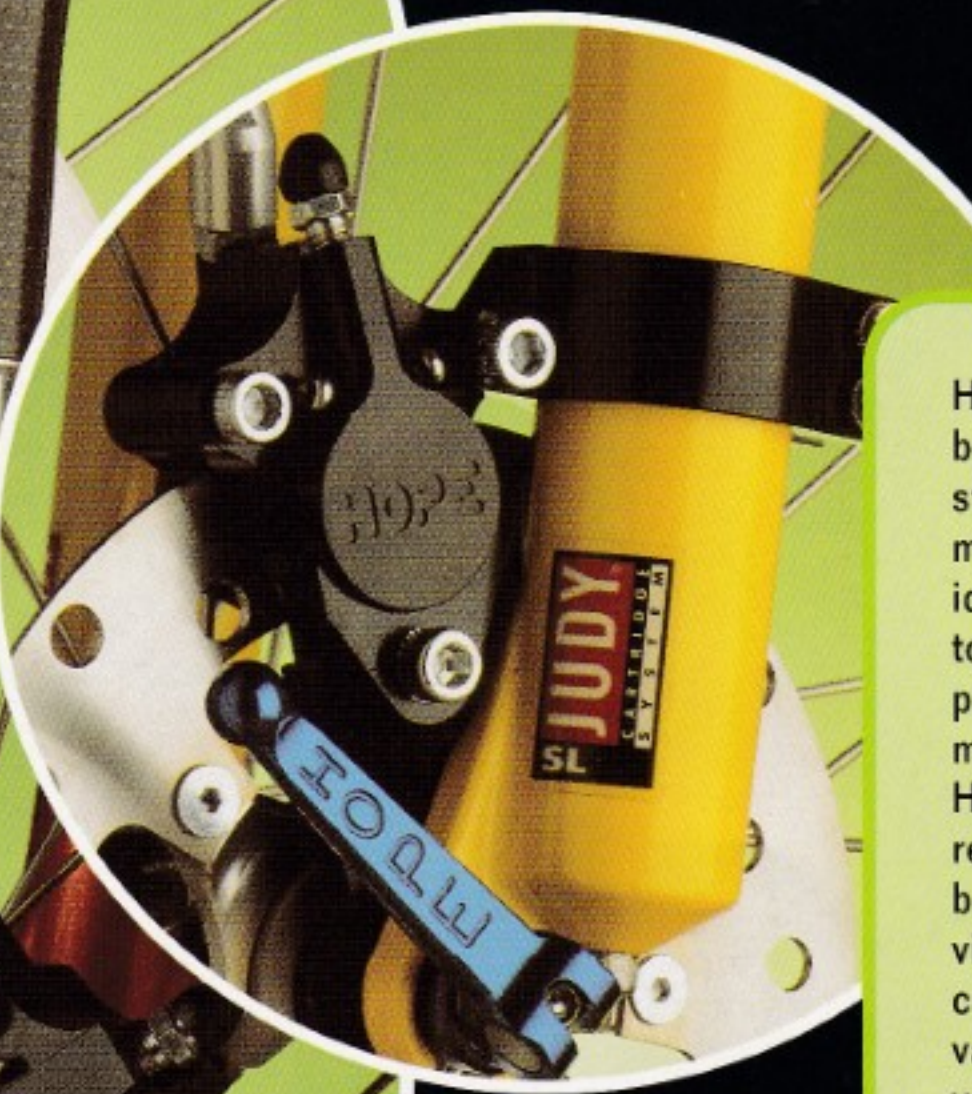
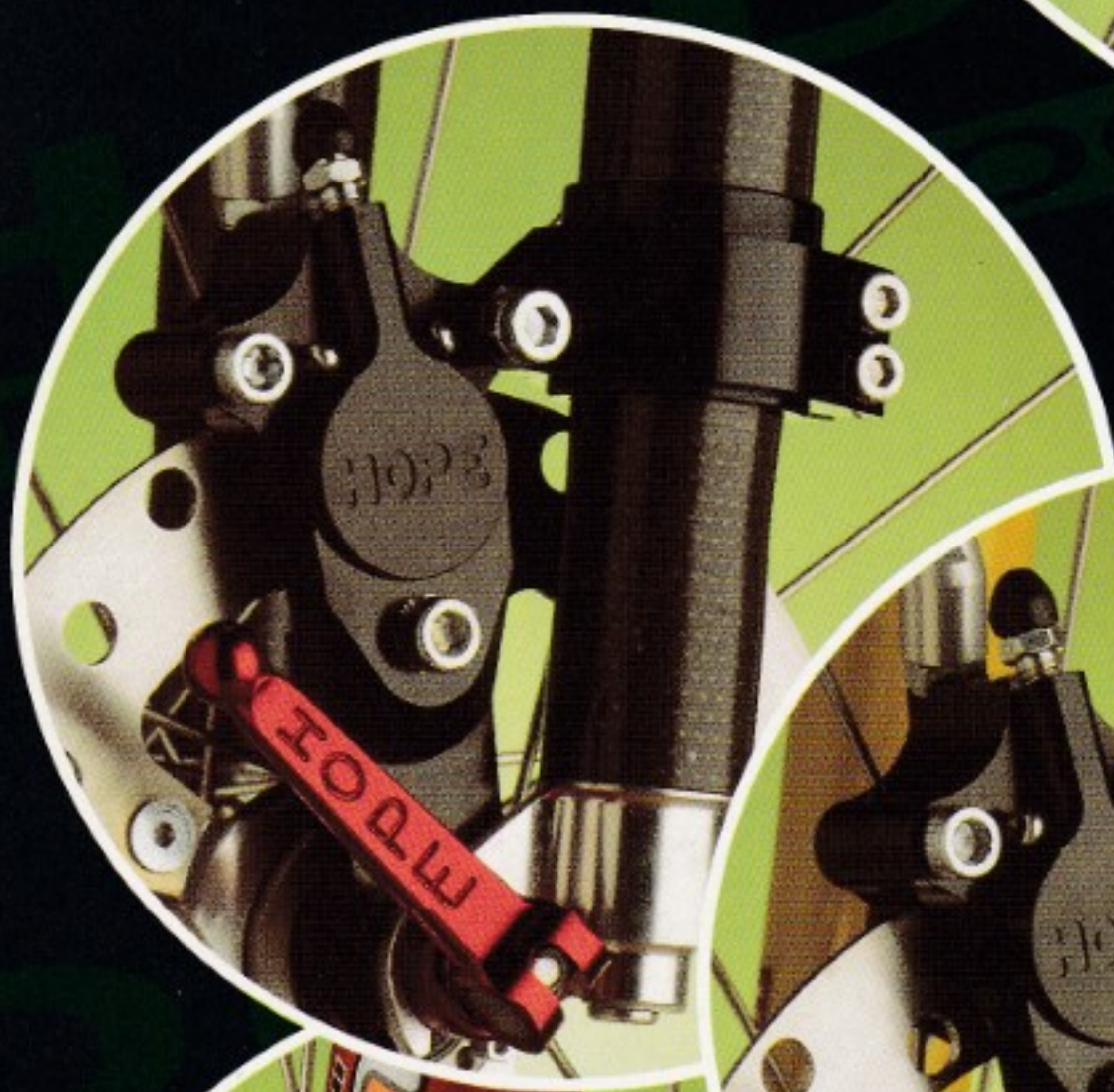
The system now uses a mechanical method to ensure the full retraction of the pistons which in turn retract the pads by the use of a small magnet. This system is totally unrivalled in braking technology and virtually guarantees silent drag free running. The brake is adjustable for both lever reach and travel. Pad wear can be easily adjusted while on the move. Ergonomically designed lever for less finger ache. Lightweight and flexible Kevlar braided hose, with easy removable fittings (requires only 8mm spanner), is so strong you can literally hang your bike up with them. Virtually maintenance free, less than 5 minutes to change pads, no setting up is required. Forget all those hours of setting up your canties. The Hope Hydro means less time maintaining, more time riding.

- C.N.C. Machined from solid
- Kevlar Hose



## Hydro fittings

Hope realised more than 7 years ago that disc brakes would eventually become accepted as standard throughout the cycle industry. Many manufacturers are finally catching up to this idea and fitting mounts on frames and forks to accommodate disc brake callipers. The problem is these mounts vary to suit different makes of callipers. So to solve this problem Hope, due to the companies size and rapid response flexibility of its CNC machines has been able to make special callipers to suit virtually all these different mounts. The callipers are all the same internally and just vary slightly externally to accommodate the various mounting hole positions. On various forks where there are no mounts at all, Hope produces special clamps available to suit the most popular forks such as Rockshox (Judy, Boxer, DHO) Marzocchi (XC400/500/600/700, DH3, Bomber) Pace (MXCD, MD) & Girvin Vector. You can be assured Hope is continually working to extend this list.



## Hydro 185 front disc

By listening to the comments and requirements of the Worlds best downhillers, Hope have developed an ultra high performance front hydraulic disc brake system that fits their needs perfectly.

The disc is 185mm in diameter and can be fitted to either Hope's New Downhill Hub or the standard Splined Suspension Front Hub.

The brakes extra power enables riders to control their bike using just one or two finger braking with virtually no finger ache even on the longest descent.

## Hydro 155 front disc

The 155mm diameter disc is designed to fulfil the requirements of all aspect of cycling whether downhill, cross country racing or touring.

This size of disc keeps weight to a minimum, whilst still maintaining sufficient braking power for all disciplines.

## Hydro Universal Rear

This rear universal mount has been developed to allow you to have a rear Hydraulic Disc Brake without welding your frame.

This is done by extending the callipers down to the axle to create a second dropout inboard of the frame, this then accommodates the special short axle of the Hope Disc Compatible Hub. The whole unit is then secured against the frame to stop rotation.

## Weld-on Mounts

Pre-machined Mounts are available in either steel or aluminium. These will allow any competent frame builder to fit Hope Disc Brakes to their frames and forks. Brackets are also available for the mechanical brake.

## Road Hubs

Hope hubs are currently used by virtually all the major U.K. road teams and have taken them to most Premier Series titles. Even if you are not competing in these events you will still benefit from the superior performance given by Hope products. There is a Hope hub available for all aspects of road cycling.

At only 65g the Ultralight front hub is designed with the weight conscious rider in mind and is ideally suited to race and time trial use. For the rider interested in quality on a budget the Lightweight front hub fits the bill with its combination of cartridge bearings and quality manufacture. If radially building your front hub use the Radial hub. This has thicker spoke flanges to prevent any deformation due to the extra loads placed on the flange experienced when radially building. On the rear, Hope can offer two different types of hub. The Screw-on rear hub is made to accept a standard free wheel and the hub can be adapted to fit either 7 or 8 speed blocks. This hub contains two sealed cartridge bearings.

Our Ti-Glide cassette hub is widely accepted as one of the most durable hubs on the market. It features a three pawl ratchet which is the same design as our tandem hub and spins smoothly on four sealed deep groove cartridge bearings. The cassette body is sculptured from a solid piece of titanium and is available in either Shimano or Campagnolo pattern.



- 28, 32 or 36 Hole Drillings
- 16, 18, 20, 24, 28, 32, 36 Slotted Hole Drillings
- 7075 T6 Flanges
- Deep Groove Cartridge Bearings

## Mechanical Disc Brake

Hope's Mechanical Disc Brake offers improved braking over cantilevers yet keeps the simplicity of cables and standard levers. This high performance is maintained even in the worst conditions giving you the confidence to attempt the most difficult terrain. Hope Mechanical disc brakes have gone through over seven years of development to reach the current model. The brake operates by means of a lever turning a fast acting thread, which in turn pushes the pads against the disc. Very little adjustment is necessary and this can be performed with only an allen key and a spanner. The brake can be fitted to most popular suspension forks by means of specially machined brackets. Weld-on brackets are also available in steel or aluminium.



### FRONT MOUNTS

- Available to fit: Pace, Judy, Mag 21, Marzocchi 400/500/600/700, Manitou or Girvin Vector Forks.

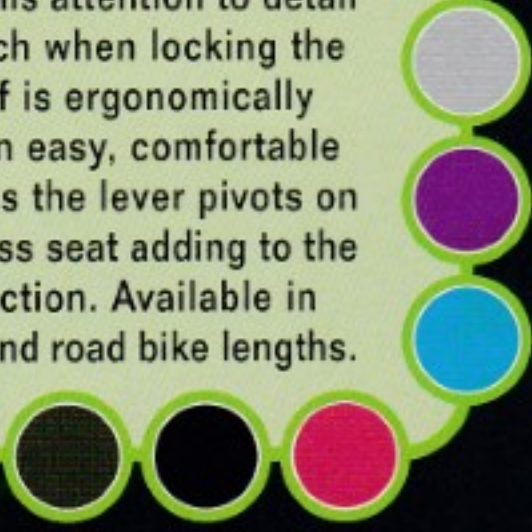
### REAR MOUNTS

- Steel or Aluminium Weld-on Brackets



## Skewers

The perfect addition to any hub set is a pair of Hope Skewers. The rod itself is made from 6A1/4V titanium which is left at a full 5mm diameter. Only the threaded ends are turned down to accommodate the rolled threads. This attention to detail eliminates any stretch when locking the lever. The lever itself is ergonomically designed allowing an easy, comfortable tightening. To aid this the lever pivots on a self lubricating brass seat adding to the smoothness of the action. Available in both mountain bike and road bike lengths.



## Ti. Bottom Brackets

What better way to hold your cranks together than with a Hope titanium bottom bracket! The tapers are designed wider and longer than on other bottom brackets. This gives a more positive location for the cranks whatever the make. The unit features two sealed cartridge bearings which will keep you going for many miles before it needs any form of service. When the bearings eventually need changing it is a very simple and inexpensive task. The perfect addition to any bike.



- Deep Groove Cartridge Bearings
- 6A1/4V Ti, Axle
- Accurate 2 Deg. Tapers
- Tolerance of 4 Microns (0.004mm)
- 7075 T6 Cups



## Tandem Hubs

Hope produce a complete range of tandem hubs to suit every requirement. The hub body is machined from billet aluminium with large flanges to cope with the increased loads experienced in tandem use. The rear hubs feature steel axles and a steel cassette body. These are available in either Shimano or Campagnolo pattern. Both the screw-on and cassette hubs are available with provision for either a spline for our disc brakes or a thread for a drag brake. The fronts are also available with or without a spline for our disc brake.

- 36, 40, 48 Hole Drillings
- Rear Axle Lengths: 130mm (cassette hub only), 135mm, 140mm, or 145mm.





# **HOPE**

## **TECHNOLOGY**

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